					DEPARTMENT						AMENI	FC DED REPOI	RM 3	
		AI	PPLICATION FO	OR PERM	IT TO DRILL				1.	WELL NAME and NU		921-36G1	cs	
2. TYPE O	F WORK	DRILL NEW WELL	REENTER	P&A WELL	. DEEPEN	WELL ()		3.	FIELD OR WILDCA	r Natural	.BUTTES		
4. TYPE O	F WELL				hane Well: NO				5.	UNIT or COMMUNI	TIZATION	AGREEN	ENT NAM	1E
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.									7.	OPERATOR PHONE		0.6545		
8. ADDRE	SS OF OPERAT				<u> </u>				9.	OPERATOR E-MAIL				
	AL LEASE NUN		P.O. Box 173779		CO, 80217 NERAL OWNERS	SHIP			12	julie.ja SURFACE OWNER:		anadarko	.com	
	., INDIAN, OR S	ML 22265		FED	ERAL NE	DIAN 🔵	STATE () FEE			DIAN \Bigg	STATE		EE 🔵
13. NAME	OF SURFACE	OWNER (if box 12	= 'fee')						14	1. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')						16	6. SURFACE OWNER	R E-MAIL	(if box 12	! = 'fee')	
	N ALLOTTEE O	R TRIBE NAME			TEND TO COMM		RODUCTION	FROM	19). SLANT				
(II box 12	= INDIAN)			YES	(Submit C	Commingli	ing Applicatio	n) NO		VERTICAL DIF	RECTION	AL 📵 H	HORIZON	ral 🔵
20. LOC/	TION OF WELL	-		FOOTAGE	ES	QTR	R-QTR	SECTION		TOWNSHIP	R	ANGE	МЕ	ERIDIAN
LOCATIO	N AT SURFACI	E	1530	FNL 179	9 FWL	SE	ENW	36		9.0 S	2	1.0 E		S
Top of U	ppermost Prod	ducing Zone	1898	3 FNL 180	5 FEL	SV	WNE	36		9.0 S	2	1.0 E		S
At Total	Depth		1898	3 FNL 180	5 FEL	SV	SWNE 36			9.0 S 2		1.0 E		S
21. COUN	TY	UINTAH		22. DIS	STANCE TO NEA	REST LEA		et)	23	B. NUMBER OF ACRI	RES IN DRILLING UNIT 639			
					STANCE TO NEA ied For Drilling		leted)	POOL	26	6. PROPOSED DEPTI MD:		TVD: 105	i31	
27. ELEV	ATION - GROUN			28. BC	OND NUMBER					9. SOURCE OF DRIL ATER RIGHTS APPR	OVAL NU	MBER IF A	PPLICAB	LE
		4996			Hole, Casing	22013		mation			43-8	8496		
String	Hole Size	Casing Size	Length	Weight	Grade & T		Max Mu			Cement		Sacks	Yield	Weight
Surf	12.25	8.625	0 - 2580	28.0	J-55 L1	Г&С	0.2	2		Type V		180	1.15	15.8
								Class G 270 1.15				15.8		
Prod	7.875	4.5	0 - 10812	11.6	HCP-110	LT&C	13.	0 1	Premi	um Lite High Stre	ngth	320	3.38	12.0
										50/50 Poz		1590	1.31	14.3
					A	TTACHN	MENTS							
	VEF	RIFY THE FOLLO	WING ARE AT	TACHED I	IN ACCORDAN	ICE WITH	H THE UTA	H OIL AND G	AS C	ONSERVATION G	ENERA	L RULES		
✓ w	ELL PLAT OR M	IAP PREPARED BY	LICENSED SURVE	YOR OR E	NGINEER		СОМР	LETE DRILLIN	G PLA	N				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE) FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER														
I DII	DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) TOPOGRAPHICAL MAP													
NAME D	anielle Piernot			TITLE R	egulatory Analys	t		PHONE	720 92	29-6156				
SIGNATU	SIGNATURE DATE 12/19/2011 EMAIL danielle.piernot@anadarko.com													
	BER ASSIGNED 047522840			APPROV	/AL			B	, W	Zeylll				
								Pe	rmit	Manager				

API WEII NUMBEL: 4304/322040000

Morgan State 921-36F2 Pad Drilling Program
1 of 9

Kerr-McGee Oil & Gas Onshore. L.P.

MORGAN STATE 921-36G1CS

Surface: 1530 FNL / 1799 FWL SENW BHL: 1898 FNL / 1805 FEL SWNE

Section 36 T9S R21E

Unitah County, Utah Mineral Lease: ML-22265

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	Resource
Uinta	0 - Surface	
Green River	1,325'	
Birds Nest	1,645'	Water
Mahogany	2,133'	Water
Wasatch	4,590'	Gas
Mesaverde	7,271'	Gas
Sego	9,429'	Gas
Castlegate	9,497'	Gas
MN5	9,931'	Gas
TVD =	10,531'	
TD =	10,812'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) will either drill to the the Blackhawk formation, which is part of the Mesaverde formation, or the Wasatch/Mesaverde formation. If Kerr McGee drills to the Blackhawk formation (part of the Mesaverde formation), please refer to MN5 as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr McGee drills to the Wasatch/Mesaverde formation please refer to Sego as the bottom formation. The attached Wasatch/Mesaverde Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the depths the Wasatch/Mesaverde formations are found.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

API Well Number: 43047522840000

Morgan State 921-36F2 Pad

Drilling Program
2 of 9

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. <u>Abnormal Conditions</u>:

7.a Blackhawk (Part of Mesaverde Formation) Target Formation

Maximum anticipated bottom hole pressure calculated at 10531' TVD, approximately equals 6,950 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,682 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach/Mesaverde Target Formation

Maximum anticipated bottom hole pressure calculated at 9429' TVD, approximately equals 6,035 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,947 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

Morgan State 921-36F2 Pad **Drilling Program**

> This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Morgan State 921-36F2 Pad Drilling Program

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

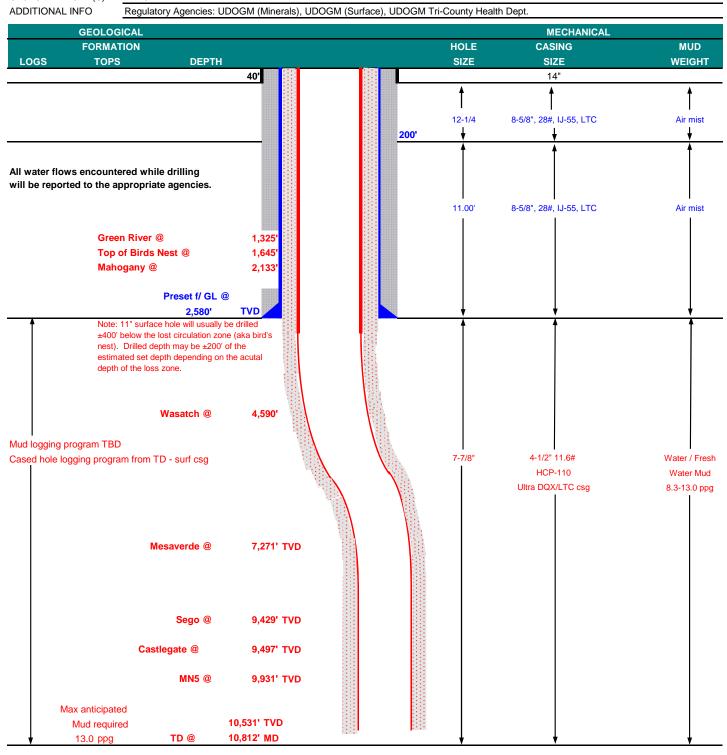
Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

4 of 9



KERR-McGEE OIL & GAS ONSHORE LP BLACKHAWK DRILLING PROGRAM

COMPANY NAME KER	R-McGEE OIL &	GAS ONSHORE	LP		DATE	December	19, 2011		
WELL NAME MO	RGAN STATE	E 921-36G1C	S		TD	10,531'	TVD	10,812' MD	
FIELD Natural Butte	COUNTY Uintah STATE Uta		STATE Uta	h	FINISHED ELEVATION		4,994'		
SURFACE LOCATION	SENW	1530 FNL	1799 FWL	Sec 36	T 9S	R 21E			
	Latitude:	39.995577	Longitude:	: -109.50	2374		NAD 27		
BTM HOLE LOCATION	SWNE	1898 FNL	1805 FEL	Sec 36	T 9S	R 21E			
	Latitude:	39.994563	Longitude:	: -109.49	641		NAD 27		
OBJECTIVE ZONE(S)	BLACKHAWK								
ADDITIONAL INFO Regulatory Agencies: LIDOGM (Minerals), LIDOGM (Surface), LIDOGM Tri-County Health Dept									





KERR-McGEE OIL & GAS ONSHORE LP BLACKHAWK DRILLING PROGRAM

CASING PROGRAM	 =	DESIGN FACTORS									
_										LTC	DQX
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TE	ENSION
CONDUCTOR	14"	(0-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,580	28.00	IJ-55	LTC	2.09	1.56	5.50	N/A
								10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.22		3.65
	4-1/2"	5.000	to	10.812'	11.60	HCP-110	LTC	1.19	1.22	5.16	

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, opt	ion 2 will be	utilized	
Option 2 LEAD	2,080'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	4,082'	Premium Lite II +0.25 pps	320	35%	12.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	6,730'	50/50 Poz/G + 10% salt + 2% gel	1,590	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys wil	ll be taken	at 1,000'	minimum	intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

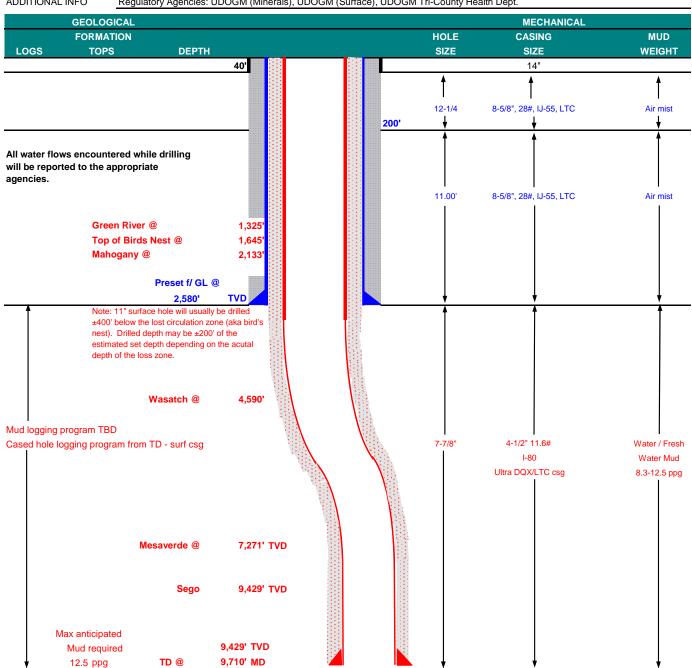
	Wost figs have FVT System for muu	mornioning. If no FVT is available, visual mornioning will be utilized.		
DRILLING	ENGINEER:		DATE:	
		Nick Spence / Danny Showers / Chad Loesel		
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young	_	

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP WASATCH/MESAVERDE DRILLING PROGRAM

COMPANY NAME KER	R-McGEE OIL 8	GAS ONSHOR	E LP		DATE				
WELL NAME MO	RGAN STAT	E 921-36G10	CS	TD	9,429'	TVD	9,710' MD		
FIELD Natural Butte	COUNTY	Uintah S	TATE Utal	1	FINIS	SHED ELEVATION_	4,994'		
SURFACE LOCATION	SENW	1530 FNL	1799 FWL	Sec 36	T 9S	R 21E			
	Latitude:	39.995577	Longitude:	-109.502	2374		NAD 27		
BTM HOLE LOCATION	SWNE	1898 FNL	1805 FEL	Sec 36	T 9S	R 21E			
	Latitude:	39.994563	Longitude:	-109.496	641		NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

WASATCH/MESAVERDE DRILLING PROGRAM

CASING PROGRAM	<u>/</u>	DESIGN FACTORS									
										LTC	DQX
	SIZE	INT	ERVAI	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
CONDUCTOR	14"	()-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,580	28.00	IJ-55	LTC	2.09	1.56	5.50	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.04		2.93
								7,780	6,350	223,000	
	4-1/2"	5,000	to	9,710'	11.60	I-80	LTC	1.11	1.04	5.05	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	Т	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
TOP OUT CMT (6	ijobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			NOTE: If well will circulate water to	surface, opt	ion 2 will be	utilized		
Option 2	LEAD	2,080'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
TOP OUT	СМТ	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	4,090'	Premium Lite II +0.25 pps	320	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,620'	50/50 Poz/G + 10% salt + 2% gel	1,330	35%	14.30		1.31
			+ 0.1% R-3					

 $^{^{\}star}$ Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
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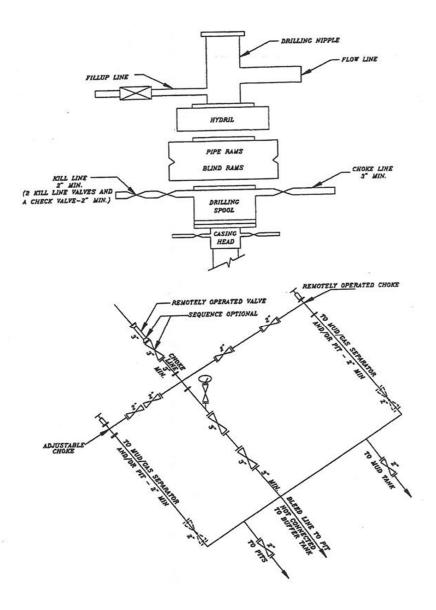
Surveys will be taken at 1,000' minimum interval	s.
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Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

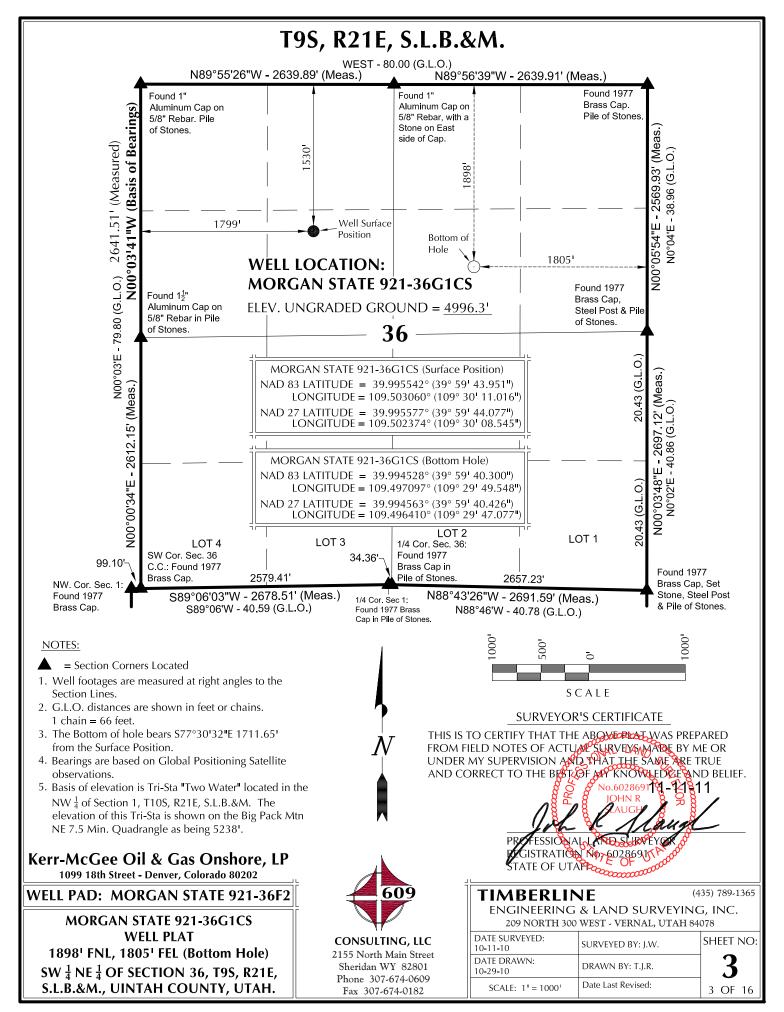
	Wood ngo nave i v i bystem for mat	Thorntoning. If no i vi is available, visual morntoning will be u	uiized.	
DRILLING	ENGINEER:		DATE:	
		Nick Spence / Danny Showers / Chad Loesel	•	
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young		

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A
MORGAN STATE 921-36G1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



WELL NAME		SU	JRFACE POSIT	ION					В	OTTOM HOLE		
	NAI	D83	N	AD27		=0.5-:		NAD	83	NAD		
MORGAN STATE	LATITUDE	LONGITUDE				FOOTAGES	LATITU 39°59'45		LONGITUDE	LATITUDE 39°59'45.277"		FOOTAGES
	39°59'44.130" 39.995592°	109°30'10.905 109.503029°	39°59'44.25' 39.995627°	6" 109°30'(109.502		1512' FNL 1807' FWL	39°59'45		109°30'06.584" 109.501829°	39°59'45.2//" 39.995910°	109°30'04.112" 109.501142°	1408' FNL 2144' FWL
MORGAN STATE	39°59'44.040"	109°30'10.961	" 39°59'44.16	7" 109°30'0	08.489"	1521' FNL	39°59'43	.896"	109°29'49.464"	39°59'44.022"	109°29'46.994"	1534' FNL
	39.995567°	109.503045°	39.995602°	109.502		18031 FWL	39.99552		109.497073°	39.995562°	109.496387°	1799' FEL
MORGAN STATE 921-36G1CS	39°59'43.951" 39.995542°	109°30'11.016 109.503060°	" 39°59'44.07 39.995577°	7" 109°30'0 109.502		1530' FNL 1799' FWL	39°59'40 39.99452		109°29'49.548" 109.497097°	39°59'40.426" 39.994563°	109°29'47.077" 109.496410°	1898' FNL 1805' FEL
MORGAN STATE	39°59'43.862"	109°30'11.072	" 39°59'43.98	8" 109°30'0	08.600	1539¹ FNL	39°59'41	.870"	109°30'06.577"	39°59'41.997"	109°30'04.106"	1740' FNL
921-36F1CS	39.995517°	109.503076°	39.995552° RELATIV	109.5023 E COORDIN		1794' FWL From Surface	39.99496 Position to		109.501827° om Hole	39.994999°	109.501141°	2144' FWL
WELL NAME	NORTH	EAST W	ELL NAME	NORTH	EAS	T WELL	NAME	NORT	TH EAST	WELL NAM	E NORTH	EAST
MORGAN STATE 921-36F1BS	103.21	110 5	RGAN STATE -36G1BS	-15.3	1673.	4 MORGA 921-360	N STATE	- 370.	.2' 1671.1'	MORGAN STA	-201.8	349.81
,09	/	N S CALE	5 THE WEST I			MO MOR	ORGAN ORGAN ORGAN	STA	Az= 	Az=72.94 Az=72.94 N72°56'55"F (To Botto) =90.52250° 3'39"E - 1673 Sottom Hole	(3.49'	
	S.L.B.&N GLOBAL OBSERV Gee Oil & th Street - De	nver, Colorado	shore, LP	41"W. 41"W. 68/5/25/25/25/25/25/25/25/25/25/25/25/25/2					21.36F1CS		=102.49111 20'32"E - 1711 ottom Hole) A - 179.9 0 80'12>"E - 40' 100'01'2>"E - 40' No 80'tom Hole)	83° 383', 9
	S.L.B.&N GLOBAL OBSERV Gee Oil & th Street - De	A. WHICH IS TO POSITIONING ATIONS TO BE ATIO	shore, LP	41"W. 41"W. 68/5/25/25/25/25/25/25/25/25/25/25/25/25/2		609			921.36G16 921.36G1CS MBERL		A = 119 0007:27:1:97 0 Bottom Hol	
1099 18 WELL PAD	S.L.B.&N GLOBAL OBSERV Gee Oil & th Street - De	A. WHICH IS TO POSITIONING ATIONS TO BE ATIO	shore, LP	41"W. 41"W. 68/5/25/25/25/25/25/25/25/25/25/25/25/25/2				TI	MBERLI NGINEERIN	S S S S S S S S S S S S S S S S S S S	A 2 119 9 5 6 80 80 80 80 80 80 80 80 80 80 80 80 80	363°, 363°, 9) 35) 789-1365 6, INC.
WELL PAD WELL	S.L.B.&M GLOBAL OBSERV Gee Oil & th Street - De - MORG	A. WHICH IS TO POSITIONING ATIONS TO BE ATIO	shore, LP 80202 921-36F2	41"W. 41"W. 68/5/25/25/25/25/25/25/25/25/25/25/25/25/2				TI	MBERLI NGINEERIN 209 NORTH 3	S S S S S S S S S S S S S S S S S S S	A 2 119 50°07'27'15'97 0 Bottom 700 Hold	363°, 363°, 9) 35) 789-1365 6, INC.
WELL PAD WELL WELLS	S.L.B.&M GLOBAL OBSERV Gee Oil & th Street - De - MORG. PAD INTE - MORGAN ORGAN STA	A. WHICH IS TO POSITIONINATIONS TO BE A COMMENTED TO BE A COMMENTE	shore, LP 180202 921-36F2 PLAT F1BS, S,	41"W. \$25/55/ \$25/55/ \$25/55/		609 JLTING, LL		TI E	MBERLI NGINEERIN 209 NORTH 3	S S S S S S S S S S S S S S S S S S S	SURVEYINC	383° 383°, 9) 35) 789-1365 6, INC.
WELL PAD WELL WELLS	S.L.B.&M GLOBAL OBSERV The street of the st	A. WHICH IS TO POSITIONING ATIONS TO BE ATIO	shore, LP 180202 921-36F2 PLAT F1BS, S, S, S,	41"W. \$25/55/ \$25/55/ \$25/55/	2155 No	609 JLTING, LL rth Main Stre	Cent	TI . E	MBERLI NGINEERIN 209 NORTH 3	INE G & LAND 500 WEST - VER SURVEYED B	SURVEYINC NAL, UTAH 84C Y: J.W.	35) 789-1365 i, INC.
WELL PAD WELL WELLS MO MO MO	S.L.B.&M GLOBAL OBSERV Gee Oil & th Street - De - MORG - MORGAN ORGAN STA' ORGAN STA' ORGAN STA'	A. WHICH IS TO POSITIONINATIONS TO BE A COMMENTED TO BE A COMMENTE	shore, LP 80202 921-36F2 PLAT F1BS, S, & S	41"W. 86/25/55/55/55/55/55/55/55/55/55/55/55/55/	2155 No Sherida	609 JLTING, LL	Cet	TI . E	MBERLINGINEERIN 209 NORTH 3 SURVEYED: -10 DRAWN:	S S G & LAND MOO WEST - VER	SURVEYINC NAL, UTAH 84C Y: J.W.	35) 789-1365 i, INC.

Phone 307-674-0609 Fax 307-674-0182

209 NORTH 300 WEST - VERNAL, UTAH 84078

S.L.B.&M., UINTAH COUNTY, UTAH

REVISED:

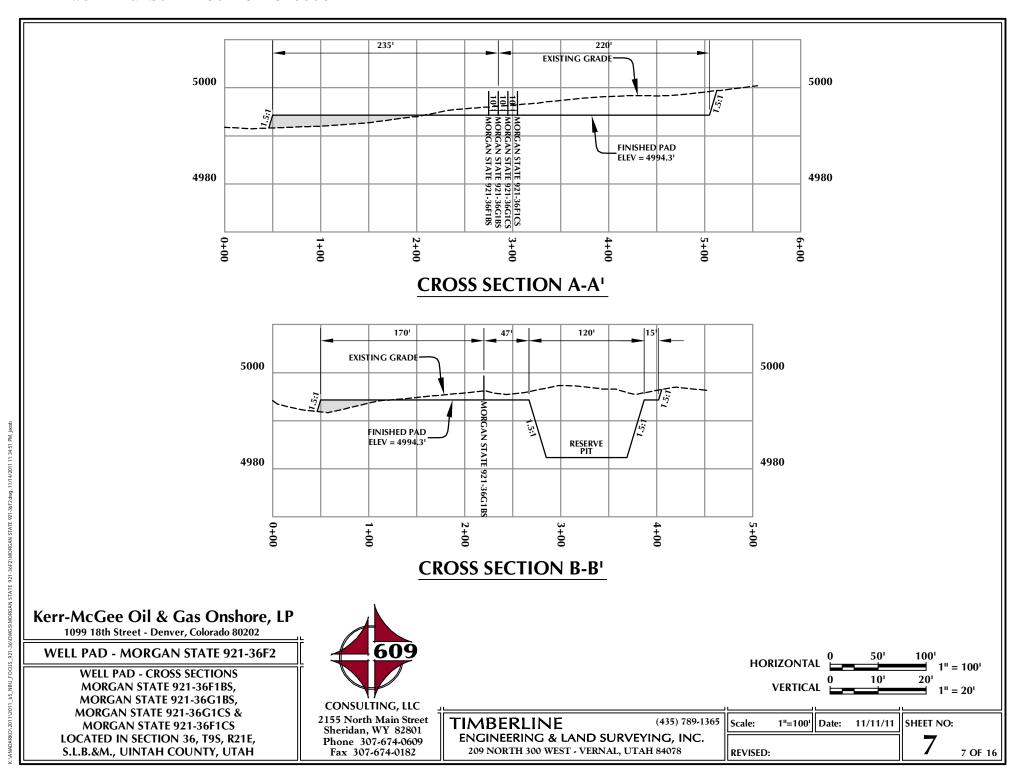
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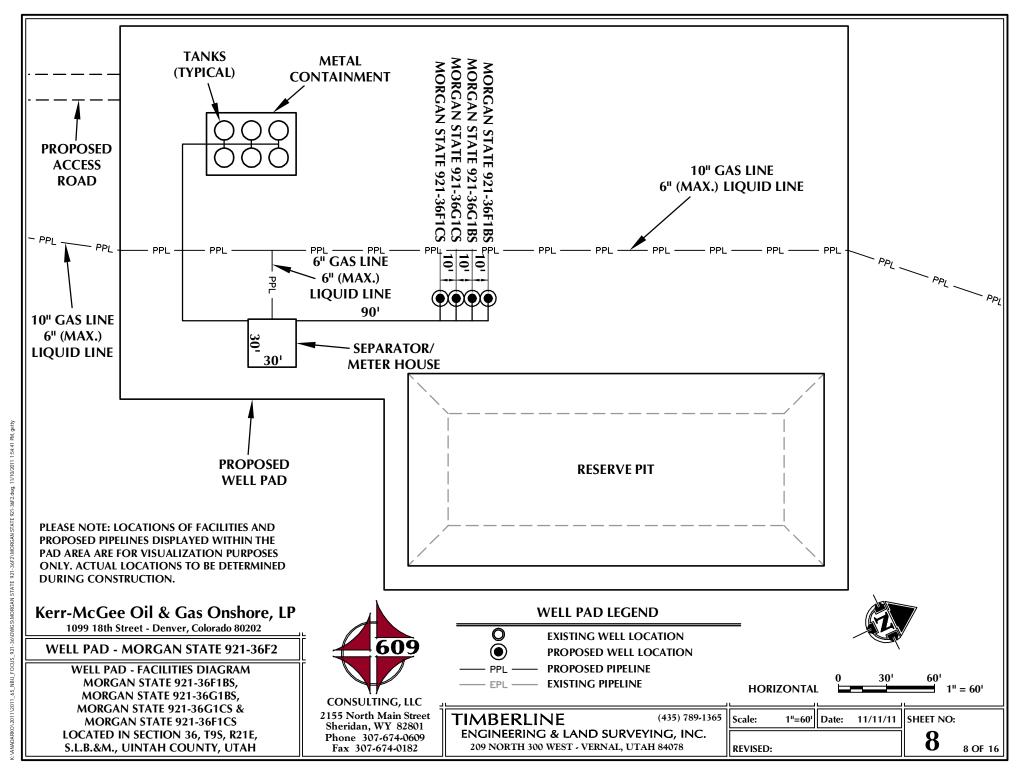
6 OF 16

S.L.B.&M., UINTAH COUNTY, UTAH

209 NORTH 300 WEST - VERNAL, UTAH 84078

REVISED:





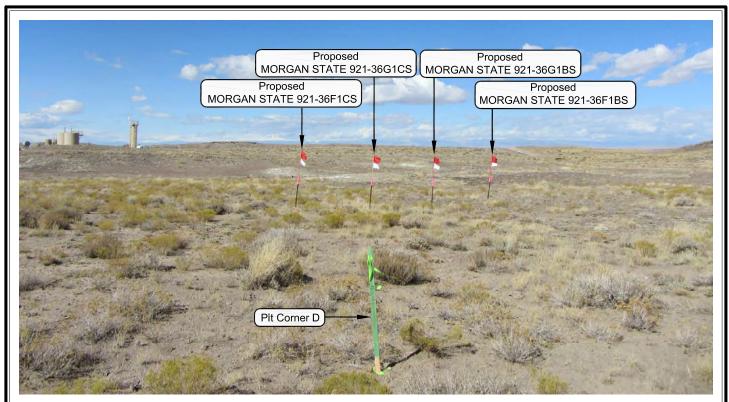


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - MORGAN STATE 921-36F2

LOCATION PHOTOS MORGAN STATE 921-36F1BS, MORGAN STATE 921-36G1BS, **MORGAN STATE 921-36G1CS & MORGAN STATE 921-36F1CS** LOCATED IN SECTION 36, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

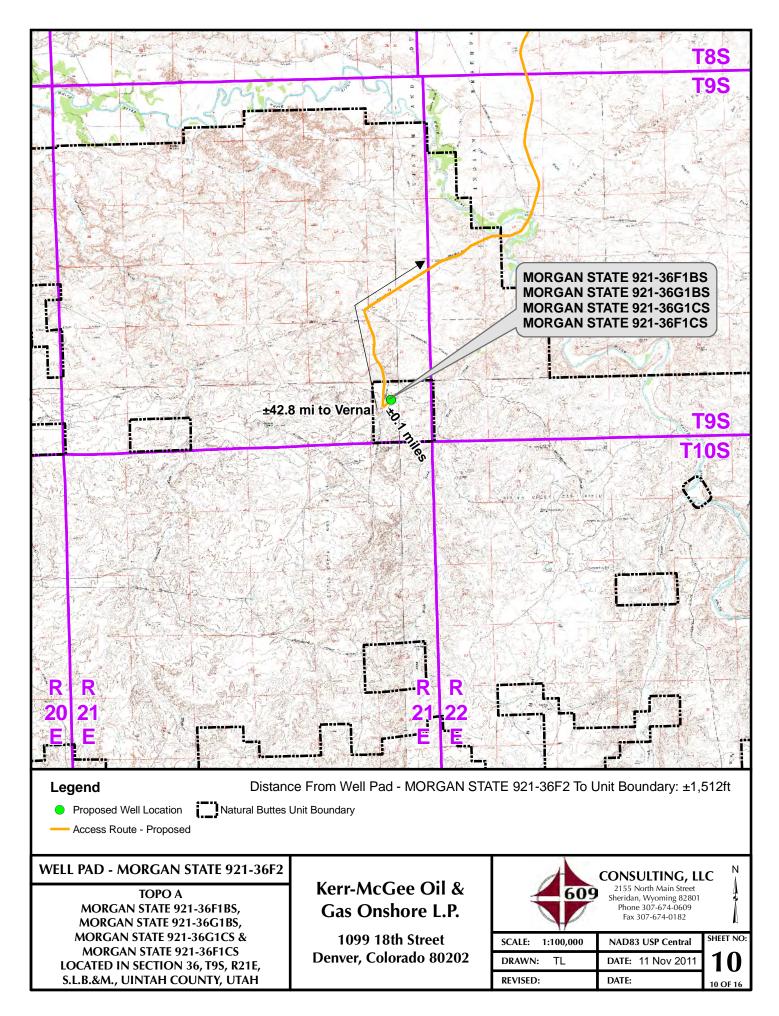


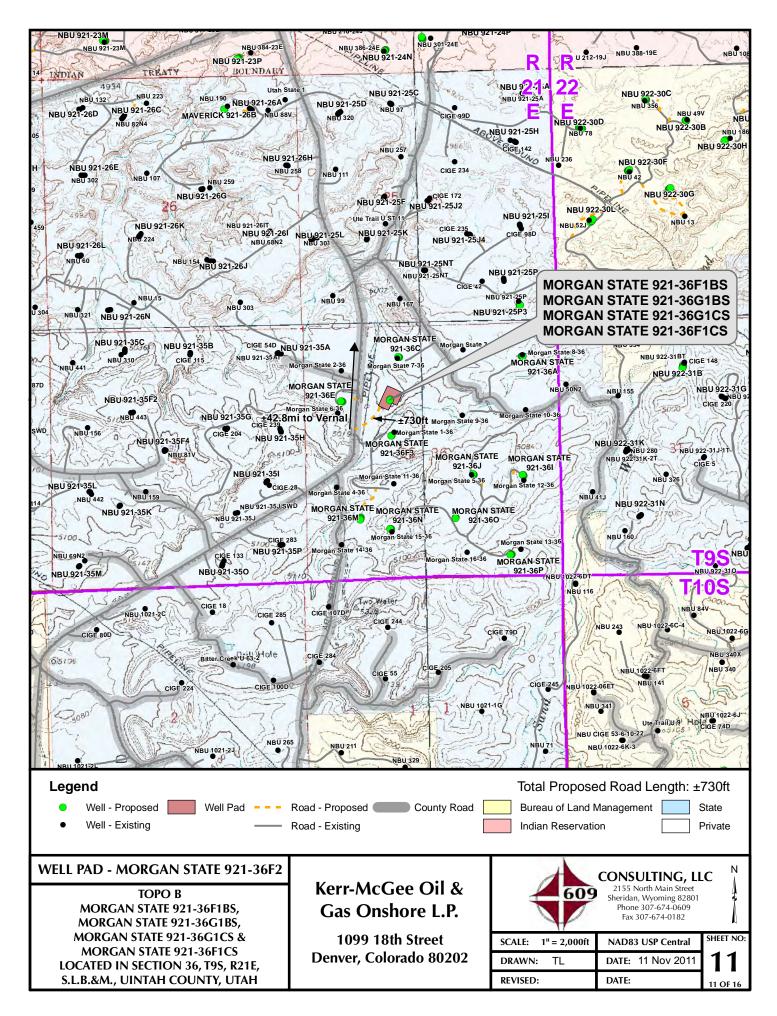
CONSULTING, LLC

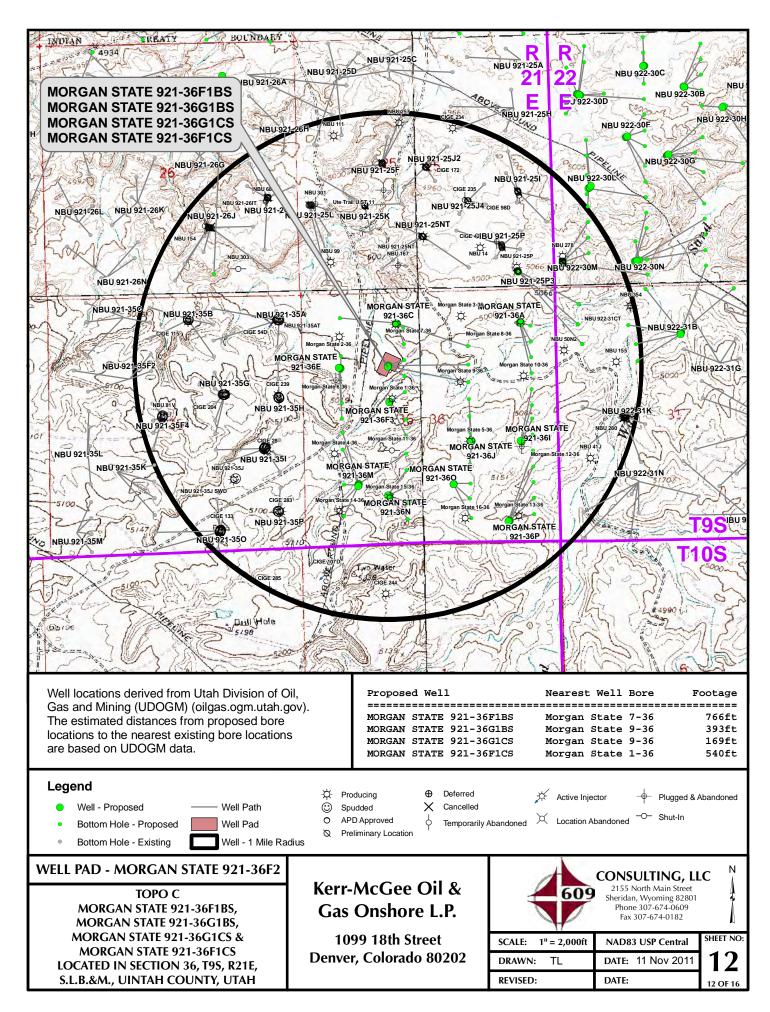
2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

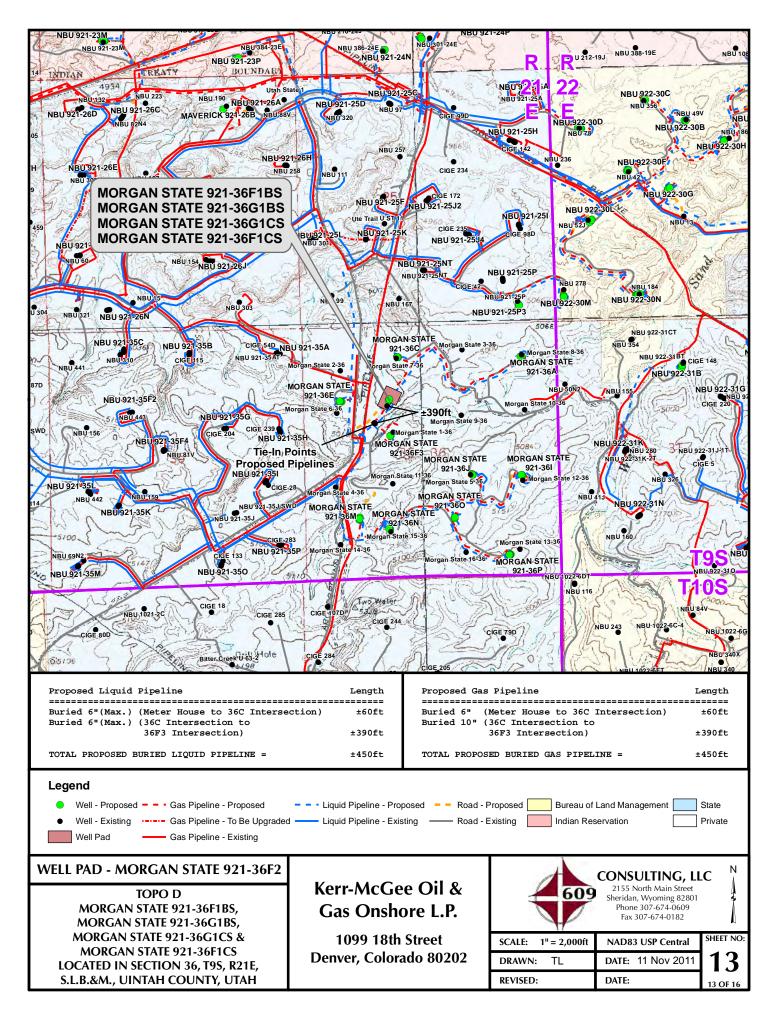
TIMBERLIN	JE (435) 789-1365
engineering	& LAND SURVEYING	G, INC.
209 NORTH 300	WEST - VERNAL, UTAH 84	1078
DATE PHOTOS TAKEN:	PHOTOS TAKEN BY: J.W.	SHEET NO:
10-11-10 DATE DRAWN:	,	

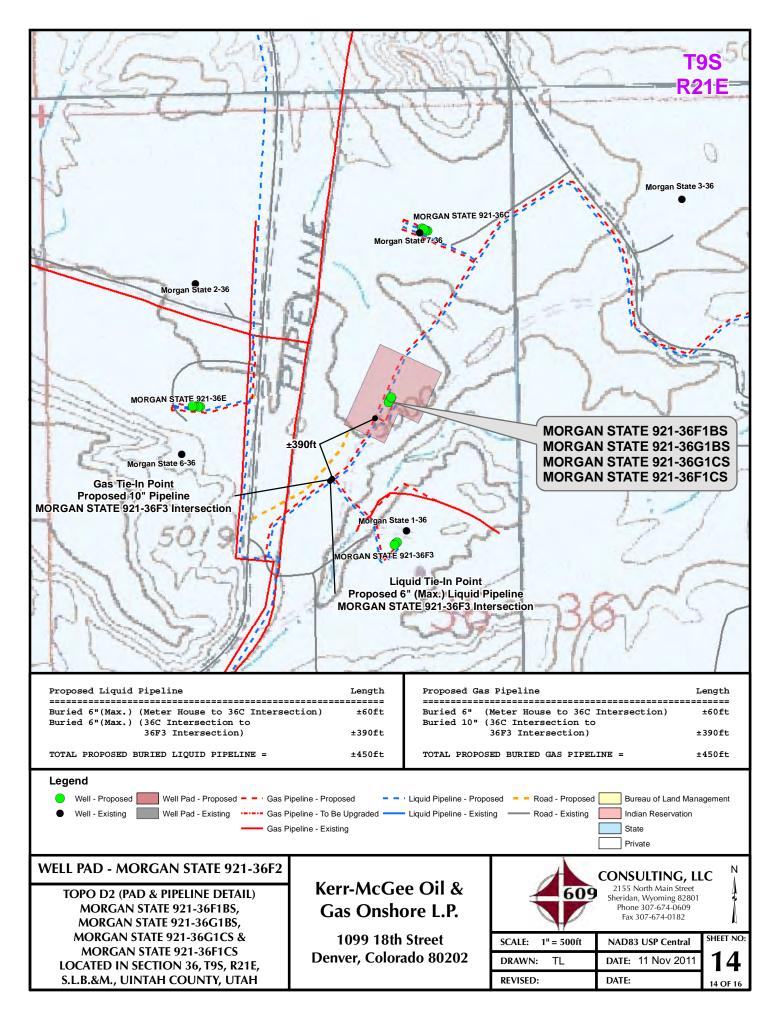
DRAWN BY: T.J.R. 10-29-10 Date Last Revised: 9 OF 16

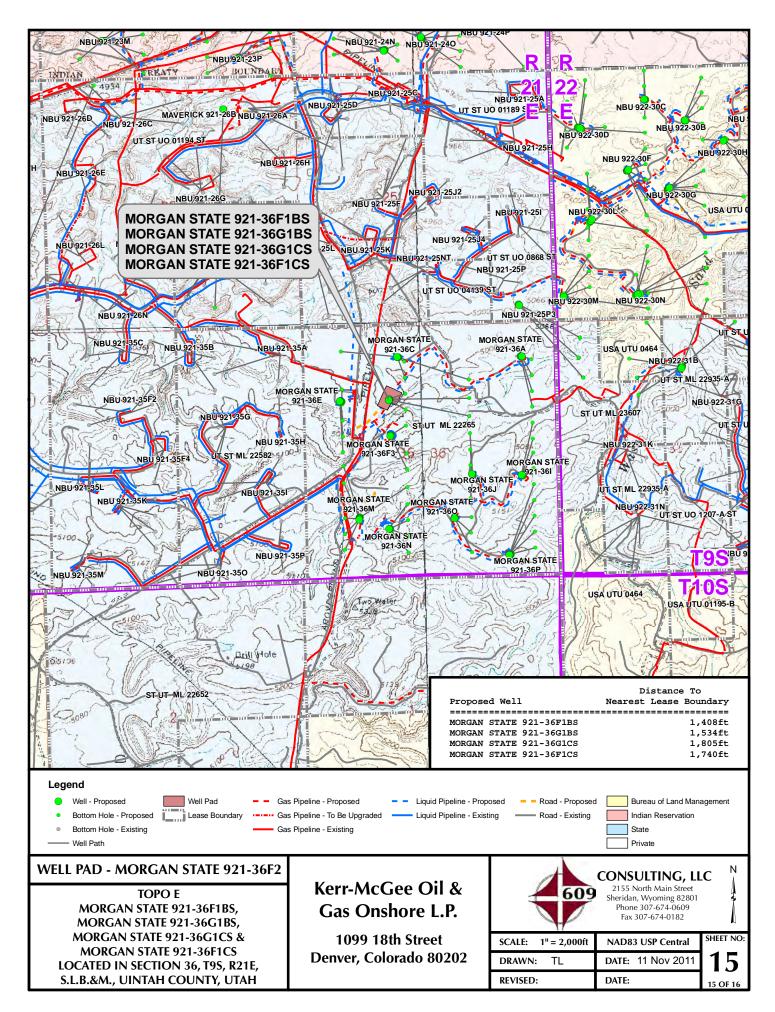












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – MORGAN STATE 921-36F2 WELLS – MORGAN STATE 921-36G1BS, MORGAN STATE 921-36G1BS, MORGAN STATE 921-36G1CS & MORGAN STATE 921-36F1CS Section 36, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 19.3 miles to the proposed access road to the northeast. Follow road flags in a northeasterly direction approximately 730 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.9 miles in a southerly direction.

SHEET 16 OF 16

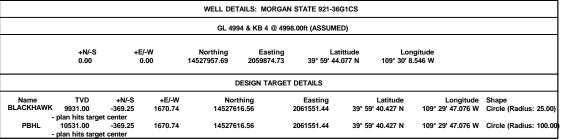
API Well Number: 43047 520 4 WTAB - UTM (feet), NAD27, Zone 12N

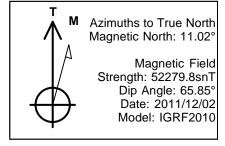
Site: MORGAN STATE 921-36F2 PAD Well: MORGAN STATE 921-36G1CS

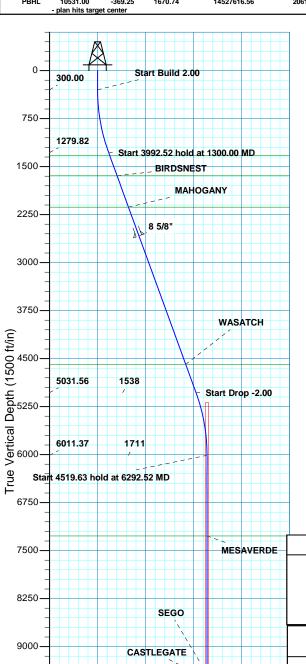
Wellbore: OH

Design: PLAN #1 PRELIMINARY









BLACKHAWK

1711

TD at 10812.15

Vertical Section at 102.46° (1500 ft/in)

1500

2250

3000

750

10531.00

9750

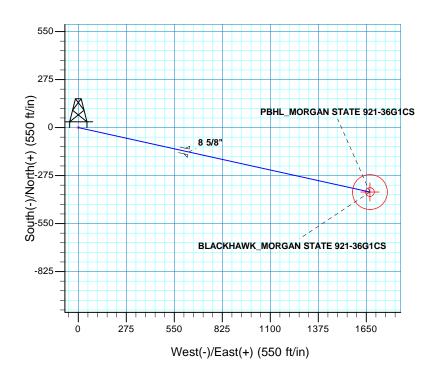
10500

11250

-750

Scientific Drilling

Rocky Mountain Operations



				SECT	TION DETA	ILS			
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	g
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	102.46	1279.82	-37.28	168.70	2.00	102.46	172.77	
5292.52	20.00	102.46	5031.56	-331.97	1502.04	0.00	0.00	1538.29	
6292.52	0.00	0.00	6011.37	-369.25	1670.74	2.00	180.00	1711.06	
10812.15	0.00	0.00	10531.00	-369.25	1670.74	0.00	0.00	1711.06	PBHL_MORGAN STATE 921-36G1CS

FORMATION TOP DETAILS PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N Formation GREENRIVER BIRDSNEST **TVDPath** MDPath 1325.00 1348.08 Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS) 1688 62 1645 00 2133.00 4590.00 2207.94 4822.62 MAHOGANY Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 36 T9S R21E WASATCH 7271.00 9429.00 7552.15 9710.15 MESAVERDE SEGO System Datum: Mean Sea Level CASTLEGATE 9497.00 9931.00 10212.15 BLACKHAWK

CASING DETAILS

TVD MD Name Size 2583.00 2686.82 8 5/8" 8.625

Plan: PLAN #1 PRELIMINARY (MORGAN STATE 921-36G1CS/OH)

RECEIVED: Created By: RobertScott Date: 15:07, December 02 2011

API Well Number: 43047522840000



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

02 December, 2011



API Well Number: 43047522840000



SDIPlanning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD

Well: MORGAN STATE 921-36G1CS

Wellbore: OH

Project:

Geo Datum: Map Zone:

Site

Site:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 4 @ 4998.00ft (ASSUMED) GL 4994 & KB 4 @ 4998.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W) Mean Sea Level

MORGAN STATE 921-36F2 PAD, SECTION 36 T9S R21E

Northing: 14,527,976.05 usft Site Position: Latitude: 39° 59' 44.257 N From: Lat/Long Easting: 2,059,883.10 usft Longitude: 109° 30' 8.435 W **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.96 13.200 in

System Datum:

Well MORGAN STATE 921-36G1CS, 1530 FNL 1799 FWL

 Well Position
 +N/-S
 -18.21 ft
 Northing:
 14,527,957.69 usft
 Latitude:
 39° 59' 44.077 N

 +E/-W
 -8.68 ft
 Easting:
 2,059,874.73 usft
 Longitude:
 109° 30' 8.546 W

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,994.00 ft

Wellbore ОН Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (°) (nT) IGRF2010 2011/12/02 11.02 65.85 52.280

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 102.46

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	102.46	1,279.82	-37.28	168.70	2.00	2.00	0.00	102.46	
5,292.52	20.00	102.46	5,031.56	-331.97	1,502.04	0.00	0.00	0.00	0.00	
6,292.52	0.00	0.00	6,011.37	-369.25	1,670.74	2.00	-2.00	0.00	180.00	
10,812.15	0.00	0.00	10,531.00	-369.25	1,670.74	0.00	0.00	0.00	0.00 PE	BHL_MORGAN ST



SDI Planning Report



Database: EDM5000-RobertS-Local
Company: US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

Well: MORG Wellbore: OH

Project:

Site:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 4 @ 4998.00ft (ASSUMED) GL 4994 & KB 4 @ 4998.00ft (ASSUMED)

True

sign:	PLAN #1 PRE	LIMINARY							
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.		0.00	000.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	102.46	399.98	-0.38	1.70	1.75	2.00	2.00	0.00
E00.00	4.00	100.46	499.84	1 51	6.01	6.98	2.00	2.00	0.00
500.00 600.00	4.00 6.00	102.46 102.46	599.45	-1.51 -3.39	6.81		2.00 2.00	2.00	0.00
700.00	8.00	102.46		-3.39 -6.02	15.32 27.22	15.69 27.88	2.00	2.00 2.00	0.00
			698.70						0.00
800.00	10.00	102.46	797.47	-9.39	42.50	43.52	2.00	2.00	0.00
900.00	12.00	102.46	895.62	-13.51	61.13	62.60	2.00	2.00	0.00
1,000.00	14.00	102.46	993.06	-18.36	83.09	85.10	2.00	2.00	0.00
1,100.00	16.00	102.46	1,089.64	-23.95	108.36	110.98	2.00	2.00	0.00
1,200.00	18.00	102.46	1,185.27	-30.26	136.91	140.21	2.00	2.00	0.00
1,300.00	20.00	102.46	1,279.82	-37.28	168.70	172.77	2.00	2.00	0.00
,	20.00 2 hold at 1300.00		1,210.02	57.20	100.70	112.11	2.00	2.00	0.00
			4 205 00	40.00	104.70	100.04	0.00	0.00	0.00
1,348.08	20.00	102.46	1,325.00	-40.83	184.76	189.21	0.00	0.00	0.00
GREENRIVE	R								
1,400.00	20.00	102.46	1,373.78	-44.66	202.09	206.97	0.00	0.00	0.00
1,500.00	20.00	102.46	1,467.75	-52.05	235.49	241.17	0.00	0.00	0.00
			1,561.72		268.89				
1,600.00	20.00	102.46		-59.43		275.37	0.00	0.00	0.00
1,688.62	20.00	102.46	1,645.00	-65.97	298.48	305.68	0.00	0.00	0.00
BIRDSNEST									
1,700.00	20.00	102.46	1,655.69	-66.81	302.28	309.58	0.00	0.00	0.00
1,800.00	20.00	102.46	1,749.66	-74.19	335.68	343.78	0.00	0.00	0.00
1,900.00	20.00	102.46	1,843.63	-81.57	369.07	377.98	0.00	0.00	0.00
2,000.00	20.00	102.46	1,937.60	-88.95	402.47	412.18	0.00	0.00	0.00
2,100.00	20.00	102.46	2,031.57	-96.33	435.87	446.38	0.00	0.00	0.00
2,200.00	20.00	102.46	2,125.54	-103.71	469.26	480.59	0.00	0.00	0.00
2,200.00	20.00	102.40	2,123.34	-105.71					
2,207.94	20.00	102.46	2,133.00	-104.30	471.91	483.30	0.00	0.00	0.00
MAHOGANY									
2,300.00	20.00	102.46	2,219.51	-111.09	502.66	514.79	0.00	0.00	0.00
2,400.00	20.00	102.46	2,313.48	-118.47	536.05	548.99	0.00	0.00	0.00
2,500.00	20.00	102.46	2,407.45	-125.86	569.45	583.19	0.00	0.00	0.00
2,600.00	20.00	102.46	2,501.42	-133.24	602.85	617.39	0.00	0.00	0.00
							0.00		
2,686.82	20.00	102.46	2,583.00	-139.64	631.84	647.09	0.00	0.00	0.00
8 5/8"		400.0	0.505.00	445.55	000.00	05: 00			
2,700.00	20.00	102.46	2,595.39	-140.62	636.24	651.60	0.00	0.00	0.00
2,800.00	20.00	102.46	2,689.35	-148.00	669.64	685.80	0.00	0.00	0.00
2,900.00	20.00	102.46	2,783.32	-155.38	703.03	720.00	0.00	0.00	0.00
3,000.00	20.00	102.46	2,877.29	-162.76	736.43	754.20	0.00	0.00	0.00
3,100.00	20.00	102.46	2,971.26	-170.14	769.83	788.40	0.00	0.00	0.00
3,200.00	20.00	102.46	3,065.23	-177.52	803.22	822.61	0.00	0.00	0.00
3,300.00	20.00	102.46	3,159.20	-184.90	836.62	856.81	0.00	0.00	0.00
3,400.00	20.00	102.46	3,253.17	-192.28	870.02	891.01	0.00	0.00	0.00
3,500.00	20.00	102.46	3,347.14	-192.26	903.41	925.21	0.00	0.00	0.00
3,600.00	20.00	102.46	3,441.11	-207.05	936.81	959.41	0.00	0.00	0.00
3,700.00	20.00	102.46	3,535.08	-214.43	970.20	993.62	0.00	0.00	0.00
3,800.00	20.00	102.46	3,629.05	-221.81	1,003.60	1,027.82	0.00	0.00	0.00
3,900.00	20.00	102.46	3,723.02	-229.19	1,037.00	1,062.02	0.00	0.00	0.00
4,000.00	20.00	102.46	3,816.99	-236.57	1,070.39	1,096.22	0.00	0.00	0.00
4,100.00	20.00 20.00	102.46	3,910.95	-243.95	1,103.79	1,130.42	0.00	0.00	0.00
4,200.00		102.46	4,004.92	-251.33	1,137.18	1,164.63	0.00	0.00	0.00



SDIPlanning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

Wellbore: OH

Project:

Site:

Well:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 4 @ 4998.00ft (ASSUMED) GL 4994 & KB 4 @ 4998.00ft (ASSUMED)

True

Design:	PLAN #1 PRE	LIMINARY							
Planed Survey Plane Plan									
Depth			Depth			Section	Rate	Rate	Rate
4,400.00	20.00	102.46	4,192.86	-266.09	1,203.98	1,233.03	0.00	0.00	0.00
4,700.00 4,800.00 4,822.62	20.00 20.00	102.46 102.46	4,474.77 4,568.74	-288.24 -295.62	1,304.16 1,337.56	1,335.64 1,369.84	0.00 0.00	0.00 0.00	0.00 0.00
4,900.00									
5,100.00 5,200.00	20.00 20.00	102.46 102.46	4,850.65 4,944.62	-317.76 -325.14	1,437.75 1,471.15	1,472.44 1,506.65	0.00 0.00	0.00 0.00	0.00 0.00
·		400.40	F 020 F0	222.52	4 504 52	4.540.04	2.00	2.00	0.00
5,400.00 5,500.00 5,600.00 5,700.00	17.85 15.85 13.85 11.85	102.46 102.46 102.46 102.46	5,133.22 5,228.92 5,325.58 5,423.07	-339.49 -345.75 -351.28 -356.08	1,536.08 1,564.38 1,589.41 1,611.12	1,573.15 1,602.13 1,627.76 1,650.00	2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00
6,000.00 6,100.00 6,200.00	5.85 3.85 1.85	102.46 102.46 102.46	5,719.36 5,819.00 5,918.87	-366.03 -367.86 -368.93	1,656.17 1,664.43 1,669.28	1,696.14 1,704.59 1,709.56	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
Start 4519.63	hold at 6292.52	2 MD							
6,400.00 6,500.00 6,600.00	0.00 0.00 0.00	0.00 0.00 0.00	6,118.85 6,218.85 6,318.85	-369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,900.00 7,000.00 7,100.00	0.00 0.00 0.00	0.00 0.00 0.00	6,618.85 6,718.85 6,818.85	-369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,400.00 7,500.00 7,552.15	0.00 0.00 0.00	0.00 0.00	7,118.85 7,218.85	-369.25 -369.25	1,670.74 1,670.74	1,711.06 1,711.06	0.00 0.00	0.00 0.00	0.00 0.00
		0.00	7,318.85	-369.25	1,670.74	1,711.06	0.00	0.00	0.00
,									
8,200.00 8,300.00 8,400.00 8,500.00 8,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7,918.85 8,018.85 8,118.85 8,218.85 8,318.85	-369.25 -369.25 -369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06 1,711.06 1,711.06	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,700.00	0.00	0.00	8,418.85	-369.25	1,670.74	1,711.06	0.00	0.00	0.00



SDIPlanning Report



Database: EDM Company: US F Project: UTA

EDM5000-RobertS-Local
US ROCKIES REGION PI

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD

Well: MORGAN STATE 921-36G1CS

Wellbore: OH

Site:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 4 @ 4998.00ft (ASSUMED) GL 4994 & KB 4 @ 4998.00ft (ASSUMED)

True

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00 8,900.00 9,000.00 9,100.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8,518.85 8,618.85 8,718.85 8,818.85	-369.25 -369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06 1,711.06	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,200.00 9,300.00 9,400.00 9,500.00 9,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8,918.85 9,018.85 9,118.85 9,218.85 9,318.85	-369.25 -369.25 -369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06 1,711.06 1,711.06	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9,700.00 9,710.15	0.00 0.00	0.00 0.00	9,418.85 9,429.00	-369.25 -369.25	1,670.74 1,670.74	1,711.06 1,711.06	0.00 0.00	0.00 0.00	0.00 0.00
SEGO 9,778.15	0.00	0.00	9,497.00	-369.25	1,670.74	1,711.06	0.00	0.00	0.00
9,800.00 9,900.00	0.00 0.00	0.00 0.00	9,518.85 9,618.85	-369.25 -369.25	1,670.74 1,670.74	1,711.06 1,711.06	0.00 0.00	0.00 0.00	0.00 0.00
10,000.00 10,100.00 10,200.00 10,212.15	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,718.85 9,818.85 9,918.85 9,931.00	-369.25 -369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06 1,711.06	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	(- BLACKHAW	_							
10,300.00	0.00	0.00	10,018.85	-369.25	1,670.74	1,711.06	0.00	0.00	0.00
10,400.00 10,500.00 10,600.00 10,700.00 10,800.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,118.85 10,218.85 10,318.85 10,418.85 10,518.85	-369.25 -369.25 -369.25 -369.25 -369.25	1,670.74 1,670.74 1,670.74 1,670.74 1,670.74	1,711.06 1,711.06 1,711.06 1,711.06 1,711.06	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,812.15	0.00	0.00	10,531.00	-369.25	1,670.74	1,711.06	0.00	0.00	0.00
TD at 10812.1	5 - PBHL_MOR	GAN STATE 92	1-36G1CS						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLACKHAWK_MORGAI - plan hits target cent - Circle (radius 25.00		0.00	9,931.00	-369.25	1,670.74	14,527,616.57	2,061,551.43	39° 59' 40.427 N	109° 29' 47.076 W
PBHL_MORGAN STATE - plan hits target cent - Circle (radius 100.0		0.00	10,531.00	-369.25	1,670.74	14,527,616.57	2,061,551.43	39° 59' 40.427 N	109° 29' 47.076 W

Casing Points							
	Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter	
	(ft)	(ft)		Name	(in)	(in)	
	2,686.82	2,583.00	8 5/8"		8.625	11.000	

API Well Number: 43047522840000



SDI **Planning Report**



Database: Company: Project: Site:

EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD

Well: MORGAN STATE 921-36G1CS ОН

Wellbore:

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 4 @ 4998.00ft (ASSUMED) GL 4994 & KB 4 @ 4998.00ft (ASSUMED)

True

mations								
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)	
	1,348.08	1,325.00	GREENRIVER					
	1,688.62	1,645.00	BIRDSNEST					
	2,207.94	2,133.00	MAHOGANY					
	4,822.62	4,590.00	WASATCH					
	7,552.15	7,271.00	MESAVERDE					
	9,710.15	9,429.00	SEGO					
	9,778.15	9,497.00	CASTLEGATE					
	10,212.15	9,931.00	BLACKHAWK					

Plan Annotations					
Mea	sured	Vertical	Local Coordinates		
	epth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	300.00	300.00	0.00	0.00	Start Build 2.00
1	,300.00	1,279.82	-37.28	168.70	Start 3992.52 hold at 1300.00 MD
5	,292.52	5,031.56	-331.97	1,502.04	Start Drop -2.00
6	,292.52	6,011.37	-369.25	1,670.74	Start 4519.63 hold at 6292.52 MD
10	,812.15	10,531.00	-369.25	1,670.74	TD at 10812.15

Morgan State 921-36F1BS/ 921-36F1CS/ 921-36G1BS/ 921-36G1CS

Surface Use Plan of Operations

1 of 9

MORGAN STATE 921-36F1BS

 Surface:
 1512 FNL / 1807 FWL
 SENW
 Lot

 BHL:
 1408 FNL / 2144 FWL
 SENW
 Lot

MORGAN STATE 921-36F1CS

 Surface:
 1539 FNL / 1794 FWL
 SENW
 Lot

 BHL:
 1740 FNL / 2144 FWL
 SENW
 Lot

MORGAN STATE 921-36G1BS

Surface: 1521 FNL / 1803 FWL SENW Lot BHL: 1534 FNL / 1799 FEL SWNE Lot

MORGAN STATE 921-36G1CS

 Surface:
 1530 FNL / 1799 FWL
 SENW
 Lot

 BHL:
 1898 FNL / 1805 FEL
 SWNE
 Lot

Pad: MORGAN STATE 921-36F2 PAD

Section 36 T9S R21E Mineral Lease: ML-22265

Uintah County, Utah Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. **Existing Roads**:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 730^{\circ}$ (0.1 miles) of new access road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ± 450 ° and the individual segments are broken up as follows:

 $\pm 60'$ (0.01 miles) –New 6" buried gas pipeline from the meter to the 921-36C intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

 $\pm 390'$ (0.1 miles) –New 10" buried gas pipeline from the 921-36C intersection to the 921-36F3 intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ± 450 ' and the individual segments are broken up as follows:

±60' (0.01 miles) –New 6" buried liquid pipeline from the separator to the 921-36C intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

±390' (0.1 miles) –New 6" buried liquid pipeline from the 921-36C intersection to the 921-36F3 intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Ouray #1 SWD in Sec. 1 T9S R21E NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 33 T9S R21E NBU 921-34L SWD in Sec. 34 T9S R21E

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum

trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be release into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/ egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/

completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA 675 East 500 South, Suite 500 Salt Lake City, UT 84102

Morgan State 921-36F1BS/ 921-36F1CS/ 921-36G1BS/ 921-36G1CS

Surface Use Plan of Operations 8 of 9

L. Other Information:

None

Morgan State 921-36F1BS/ 921-36F1CS/ 921-36G1BS/ 921-36G1CS

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

December 19, 2011

Date



Kerr-McGee Oil & Gas Onshore LP PO Box 173779 DENVER, CO 80217-3779

December 14, 2011

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11 Morgan State 921-36G1CS

T9S-R21E

Section 36: SENW (Surface), SWNE (Bottom Hole)

Surface: 1530' FNL, 1799' FWL Bottom Hole: 1898' FNL, 1805' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney Sr. Staff Landman

From: Jim Davis
To: APD APPROVAL

CC: Danielle Piernot; Julie Jacobson

Date: 2/23/2012 3:22 PM

Subject: APD Approval: the Kerr McGee Morgan State wells

The following wells have been approved by SITLA including arch and paleo clearance.

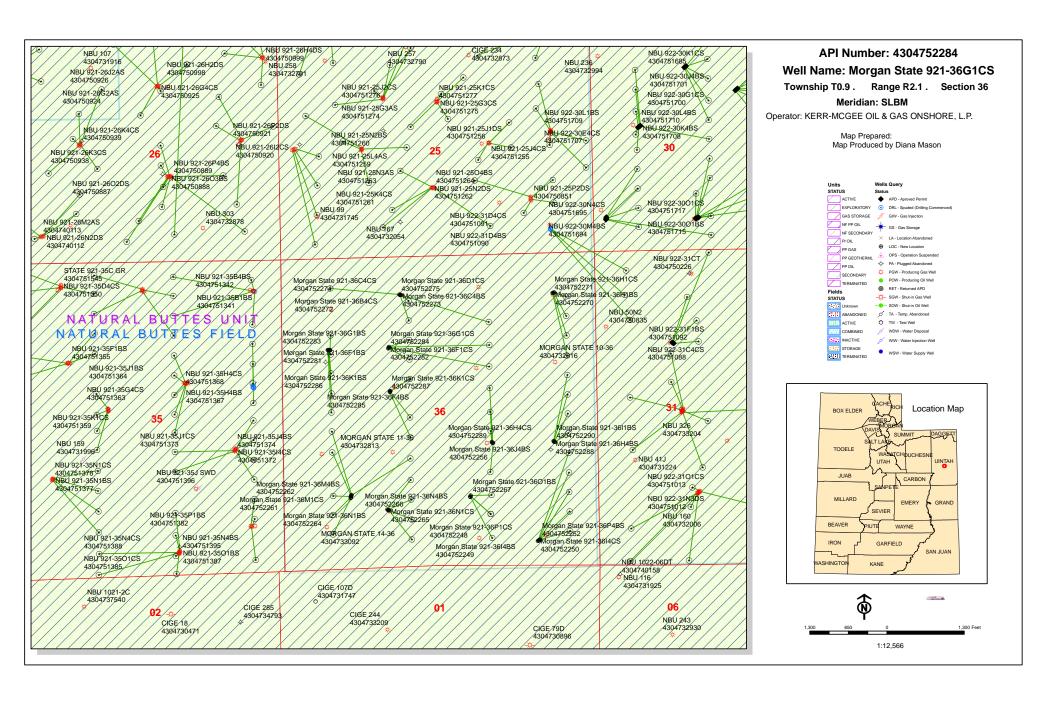
```
Morgan State 921-36G4BS
4304752246
             Morgan State 921-36G4CS
4304752253
4304752255
             Morgan State 921-36J1CS
4304752256
             Morgan State 921-36J4BS
             Morgan State 921-36F1BS
4304752281
4304752282
             Morgan State 921-36F1CS
4304752283
             Morgan State 921-36G1BS
4304752284
             Morgan State 921-36G1CS
             Morgan State 921-36F4BS
4304752285
4304752286
             Morgan State 921-36K1BS
4304752287
             Morgan State 921-36K1CS
             Morgan State 921-36P1BS
4304752247
             Morgan State 921-36P1CS
4304752248
4304752249
             Morgan State 921-36I4BS
             Morgan State 921-36I4CS
4304752250
             Morgan State 921-36P4BS
4304752252
4304752263
             Morgan State 921-36K4CS
4304752264
             Morgan State 921-36N1BS
4304752265
             Morgan State 921-36N1CS
4304752266
             Morgan State 921-36N4BS
4304752276
             Morgan State 921-36D4CS
4304752277
             Morgan State 921-36E1BS
4304752278
             Morgan State 921-36E1CS
             Morgan State 921-36E4BS
4304752279
4304752280
             Morgan State 921-36E4CS
             Morgan State 921-36O4CS
4304752245
             Morgan State 921-36O1CS
4304752254
             Morgan State 921-36O1BS
4304752267
4304752257
             Morgan State 921-36K4BS
4304752258
             Morgan State 921-36L1BS
4304752259
             Morgan State 921-36L1CS
4304752260
             Morgan State 921-36M1BS
4304752261
             Morgan State 921-36M1CS
4304752262
             Morgan State 921-36M4BS
4304752272
             Morgan State 921-36B4CS
4304752273
             Morgan State 921-36C4BS
4304752274
             Morgan State 921-36C4CS
4304752275
             Morgan State 921-36D1CS
```

There are eight more wells on two pads in this section, the 36A pad and the 36I pad, that have not yet been approved. Anadarko is gathering reclamation cost figures on pads similar to those as part of the process of acquiring adequate SITLA bonds.

-Jim

Jim Davis Utah Trust Lands Administration jimdavis1@utah.gov

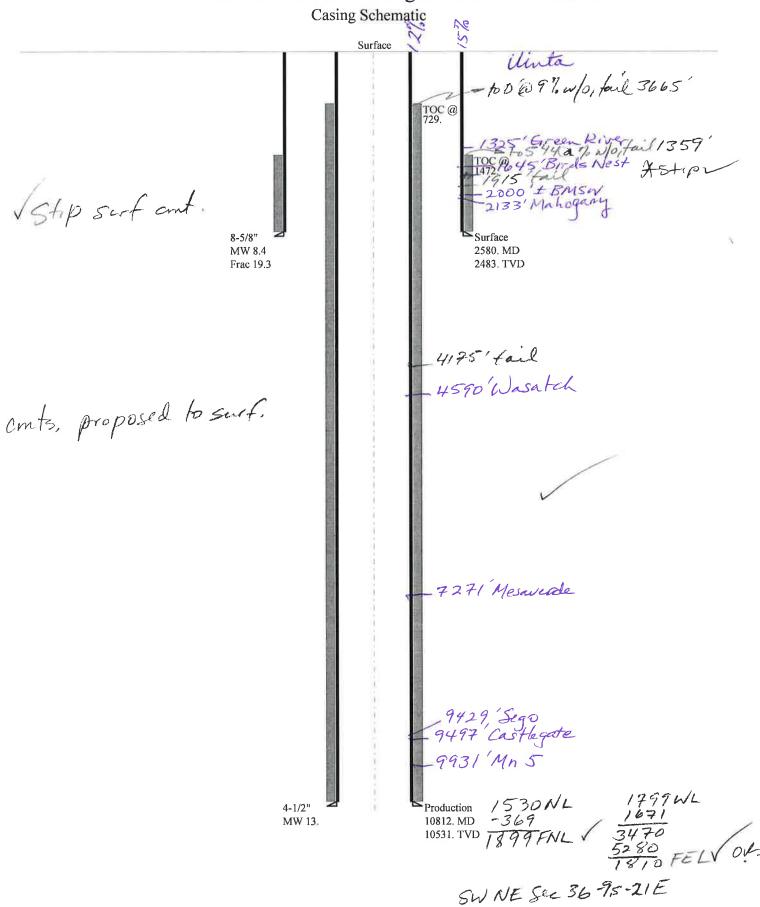
Phone: (801) 538-5156



BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. Morgan State 921-36G1CS 43047522840000

Well Name		KERR-MCGEE C	IL & GAS ONSHO	RE, L.P. Morgan	State 92	21-36G1C		
String		Surf	Prod				ī	
Casing Size(")		8.625	4.500				ī	
Setting Depth (TVD)		2483	10531				ī	
Previous Shoe Setting Dept	h (TVD)	0	2483				ī	
Max Mud Weight (ppg)		8.4	13.0				ī	
BOPE Proposed (psi)		500	5000				<u> </u>	
Casing Internal Yield (psi)		3390	10690				i	
Operators Max Anticipated	Pressure (psi)	6950	12.7				i	
Calculations		Surf Stri	nø			8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=		epth*MW=	1085	i			
· ·					1000		BOPE Ade	equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	787	=	NO	air drill
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	539		NO	Reasonable depth in area
					,		*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	oe Depth)=	539		NO	
Required Casing/BOPE Tes	st Pressure=				2373		psi	
*Max Pressure Allowed @]	Previous Casing S	Shoe=			0		psi *As	sumes 1psi/ft frac gradient
		D 10:				4.500		
Calculations May PHP (pgi)		Prod Stri	ing 52*Setting D	anth*MW-		4.500	<u>"</u>	
Max BHP (psi)		.0	52 Setting L	eptii · M w =	7119	_	ROPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	5855	_	NO NO	quate 1 or Drining Min Setting Gusing at Depth.
MASP (Gas/Mud) (psi)			P-(0.22*Setti		4802		YES	l OK
(, , ,				3 11 /	4802	_		Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	oe Depth)=	5348	=	NO	Reasonable
Required Casing/BOPE Tes	st Pressure=				5000	=	psi	
*Max Pressure Allowed @ 1	Previous Casing S	Shoe=			2483		psi *As	sumes 1psi/ft frac gradient
Calculations		String					"	
Max BHP (psi)			52*Setting D	epth*MW=				
4 /				1	<u> </u>		BOPE Ade	equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=		=	NO	i 📉
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=	Ħ		NO	
							*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	oe Depth)=			NO	
Required Casing/BOPE Tes	st Pressure=						psi	
*Max Pressure Allowed @ 1	Previous Casing S	Shoe=					psi *As	sumes 1psi/ft frac gradient
Calculations		String					**	
Max BHP (psi)		.0	52*Setting D	epth*MW=		i		
							BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=			NO	
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ng Depth)=			NO	
							*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=			NO	
Required Casing/BOPE Tes	st Pressure=						psi	
*Max Pressure Allowed @]	Previous Casing	Shoe=					psi *As	sumes 1psi/ft frac gradient

43047522840000 Morgan State 921-36G1CS



Well name:

43047522840000 Morgan State 921-36G1CS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

String type:

Project ID:

Surface

43-047-52284

Location:

UINTAH

COUNTY

Environment: Minimum design factors:

Collapse

Mud weight:

Design parameters:

Collapse: 8.400 ppg Design factor

1.125

2,253 ft

H2S considered?

No 74 °F

Design is based on evacuated pipe.

Surface temperature: Bottom hole temperature:

109 °F 1.40 °F/100ft

Temperature gradient: Minimum section length:

100 ft

Burst:

Design factor

1.00 Cement top: 1,472 ft

Burst

Max anticipated surface pressure:

No backup mud specified.

2,185 psi Internal gradient: 0.120 psi/ft Calculated BHP

2,483 psi

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.70 (J) Buttress: 1.60 (J)

Premium: Body yield:

Neutral point:

1.50 (J) 1.50 (B) Tension is based on air weight.

Directional Info - Build & Drop Kick-off point 300 ft

Departure at shoe: 611 ft Maximum dogleg: 2 °/100ft 20°

Inclination at shoe: Re subsequent strings:

Next setting depth: Next mud weight:

10,531 ft 13.000 ppg Next setting BHP: 7,112 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

2,483 ft 2,483 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2580	8.625	28.00	I-55	LT&C	2483	2580	7.892	102168
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1083	1880	1.735	2483	3390	1.37	69.5	348	5.01 J

Prepared

by:

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: March 6,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2483 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43047522840000 Morgan State 921-36G1CS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

Production

Project ID:

String type:

43-047-52284

Location:

UINTAH

COUNTY

Design parameters:

Collapse Mud weight: Minimum design factors:

Environment:

Collapse:

Design factor

H2S considered? Surface temperature: No 74 °F

13.000 ppg Design is based on evacuated pipe.

Bottom hole temperature: Temperature gradient:

221 °F 1.40 °F/100ft

Minimum section length:

100 ft

Burst:

Design factor

1.00 Cement top: 729 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: 4,795 psi 0.220 psi/ft Internal gradient: Calculated BHP

7,112 psi

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) Buttress:

Premium: Body yield: 1.60 (J) 1.50 (J) 1.60 (B)

1.125

Directional Info - Build & Drop

Kick-off point 300 ft Departure at shoe: 1711 ft Maximum dogleg: 2 °/100ft 0°

Inclination at shoe:

Tension is based on air weight.

Neutral point:

8,766 ft

Estimated cost:

160,002 (\$)

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
2	5000	4.5	Ì1.60 ´	HCP-110	DQX	4757	5000	3.875	132000
1	5812	4.5	11.60	HCP-110	LT&C	10531	10812	3.875	28002
Run Seq	Collapse Load	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design	Tension Load	Tension Strength	Tension Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
2	3212	8104	2.523	5841	10690	1.83	122.2	367.2	3.01 B
1	7112	8650	1.216	7112	10690	1.50	67	279	4.17 J

Prepared by: Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

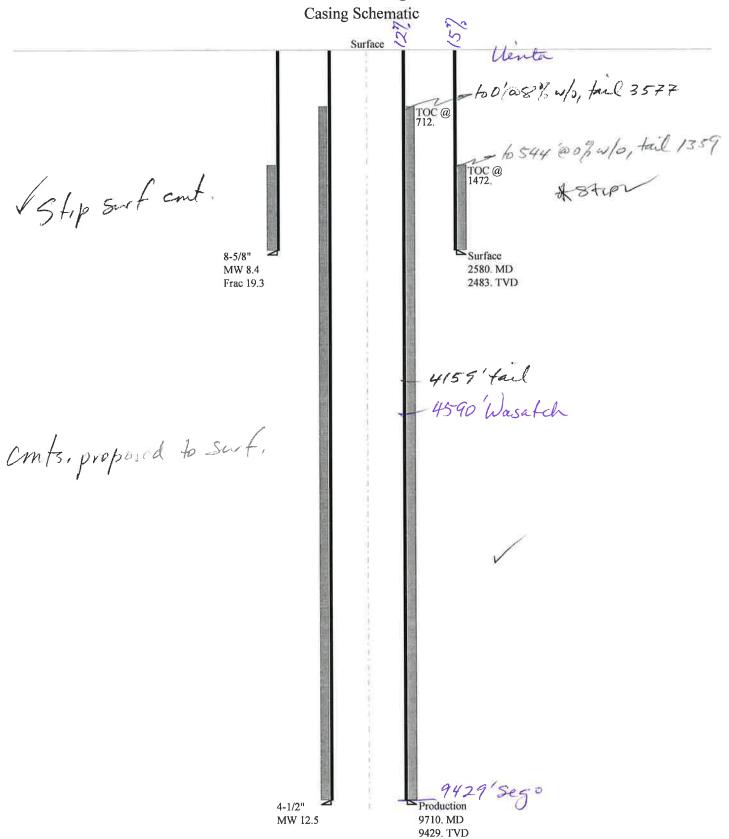
Date: March 6,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 10531 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

43047522840000 Morgan State 921-36G1CS



43047522840000 Morgan State 921-36G1CS Well name:

KERR-MCGEE OIL & GAS ONSHORE, L.P. Operator:

Surface

String type: Project ID: 43-047-52284

UINTAH Location: COUNTY

Environment: Minimum design factors: Design parameters: H2S considered? No Collapse: 8.400 ppg Design factor Surface temperature: 74 °F 1.125 Mud weight:

1.80 (J)

1.70 (J)

1.60 (J)

1.50 (J)

1.50 (B)

Design is based on evacuated pipe. Bottom hole temperature: 109 °F 1.40 °F/100ft Temperature gradient:

100 ft Minimum section length:

Burst: 1.00 Cement top: 1,472 ft Design factor

Burst Max anticipated surface

Collapse

2,185 psi pressure: Internal gradient: 0.120 psi/ft

Calculated BHP 2,483 psi

No backup mud specified.

Tension: 8 Round STC: 8 Round LTC: Buttress:

Premium: Body yield:

Tension is based on air weight. 2.253 ft Neutral point:

Directional Info - Build & Drop

300 ft Kick-off point Departure at shoe: 611 ft Maximum dogleg: 2 °/100ft 20° Inclination at shoe:

Re subsequent strings:

Next setting depth: 9,429 ft Next mud weight: 12.500 ppg Next setting BHP: 6,123 psi Fracture mud wt: 19.250 ppg Fracture depth: 2,483 ft Injection pressure: 2,483 psi

End True Vert Measured Drift Est. Segment Nominal Run Depth Size Weight **Finish** Depth Diameter Cost Seq Length Grade (ft) (in) (lbs/ft) (ft) (ft) (in) (\$) 2580 102168 LT&C 2483 7.892 1 2580 8.625 28.00 1-55 Collapse Collapse **Burst Burst Burst** Tension **Tension** Tension Run Collapse Load Strength Design Load Strength Design Seq Load Strength Design **Factor** (kips) (kips) **Factor** (psi) (psi) **Factor** (psi) (psi) 1 1083 1880 1.735 2483 3390 1.37 69.5 348 5.01 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Mining bv:

Phone: 801 538-5357 FAX: 801-359-3940

Date: March 6,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 2483 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name: 43047522840000 Morgan State 921-36G1CS

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Operator. RENT-INCOLL OIL & GAS ONSTIONE, E.F.

String type: Production Project ID: 43-047-52284

Buttress:

Premium:

Body yield:

Location: UINTAH COUNTY

No backup mud specified.

Minimum design factors: **Environment:** Design parameters: H2S considered? No Collapse: **Collapse** 74 °F 12.500 ppg Design factor 1.125 Surface temperature: Mud weight: Internal fluid density: 1.000 ppg Bottom hole temperature: 206 °F 1.40 °F/100ft Temperature gradient: Minimum section length: 100 ft Burst: Design factor 1.00 Cement top: 712 ft **Burst** Max anticipated surface 4.048 psi pressure: Directional Info - Build & Drop Internal gradient: 0.220 psi/ft Tension: Kick-off point 300 ft 8 Round STC: 1,80 (J) Calculated BHP 6,123 psi 1.80 (J) 8 Round LTC: Departure at shoe: 1711 ft

Tension is based on air weight.

Neutral point: 7,948 ft

1.60 (J)

1.50 (J)

1.60 (B)

Maximum dogleg:

Inclination at shoe:

2 °/100ft

0 °

Estimated cost: 194,172 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	5000	4.5	11.60	1-80	DQX	4757	5000	3.875	132000
1	4710	4.5	11.60	1-80	LT&C	9429	9710	3.875	62172
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
2	2842	5892	2.073	5095	7780	1.53	109.4	267	2.44 J
1	5633	6360	1.129	6123	7780	1.27	54.2	212	3.91 J

Prepared Helen Sadik-Macdonald by: Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: March 6,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9429 ft, a mud weight of 12.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.

Well Name Morgan State 921-36G1CS

API Number 43047522840000 APD No 5072 Field/Unit NATURAL BUTTES

Location: 1/4,1/4 SENW Sec 36 Tw 9.0S Rng 21.0E 1530 FNL 1799 FWL

GPS Coord (UTM) Surface Owner

Participants

D. Piernot, S. Wopsock, C. Chase, D. Holmes, K Gathings, - Anadarko; C.Jensen, D. Hackford – DOGM; M.Batty, J. Slaugh – Timberline; A. Hansen- DWR, J. Davis - SITLA

Regional/Local Setting & Topography

This location is within the Natural Buttes Unit but is not part of the Natural Buttes Unit. It is approximately 14 road miles southeast of Ouray, Utah. The general area is at the head of a long unnamed wash east of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles to the north. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws that drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sandstone bedrock cliffs along the rims.

Four new directional wells will be drilled from this location which will be served by one pad and reserve pit. Location has a major drainage to the south and is east of the compressor station. Buttes are found on the north side of the location but not within the footprint of disturbance. Otherwise area is very flat. Clastic basalt are to be found within the location boundaries but not the most part of the pad site.

Surface Use Plan

Current Surface Use

Wildlfe Habitat

New Road Miles Well Pad Src Const Material Surface Formation

0.01 Width 120 Length 260 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

dominant vegetation;

Galletta, shadscale and rabbit brush surround the well pad.

Wildlife;

habitat contains forbs that may be suitable browse for deer, antelope and rabbits, though none were observed.

DWR had no comment / issues

3/20/2012 Page 1

Soil Type and Characteristics

very flaggy loams.

Erosion Issues N

Sedimentation Issues N

high rainfall may transport sediments off location . Storm events of this size occur infrequently

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

stock piling to be used to protect any features that may present a potential

Paleo Survey Run? Paleo Potental Observed? N Cultural Survey Run? Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ran	king	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	25	1 Sensitivity Level

Characteristics / Requirements

Pit to be dug to a depth of 12'. Because of the likely hood of disturbance to existing sandstone bedrock and clastic basalt observed on the surface, pit underlayment is to be used to protect the line r from potential puncture. Operators representative was verbally informed of their decision and waas an integral part of the decision making.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Evaluator	Date / Time
Chris Jensen	1/11/2012

3/20/2012 Page 2

Application for Permit to Drill Statement of Basis

3/20/2012 Utah Division of Oil, Gas and Mining

Page 1

APD No API WellNo Status Well Type Surf Owner CBM 5072 43047522840000 SITLA GW S No

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P. Surface Owner-APD

Well Name Morgan State 921-36G1CS Unit

Field NATURAL BUTTES Type of Work DRILL

Location SENW 36 9S 21E S 1530 FNL 1799 FWL GPS Coord

(UTM) 627795E 4428337N

Geologic Statement of Basis

Kerr McGee proposes to set 2,580' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 36. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill **APD Evaluator**

2/1/2012

Date / Time

Surface Statement of Basis

Location is an existing well pad in the Morgan State unit which is within the Natural Buttes unit in southern Uintah county. There are deep drainages close to the proposed activities which are eventual tributaries to the white river. Because the soil is erodible and any spills may readily reach the dry wash, pad is to be bermed and stockpiles act as a buffer for these hydrologic features. Due to the rock within the soils and likely hood of disturbance to sandstone bedrock, the pit is to be underlined to prevent puncture. The operators representative was present and an integral part of this decision. This location is very near other disturbances previously permitted for gas recovery.

Chris Jensen
Onsite Evaluator

1/11/2012 **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed

and maintained in the reserve pit.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

Surface The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: March 20, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/19/2011 API NO. ASSIGNED: 43047522840000

WELL NAME: Morgan State 921-36G1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SENW 36 090S 210E Permit Tech Review:

> **SURFACE: 1530 FNL 1799 FWL** Engineering Review:

> **BOTTOM:** 1898 FNL 1805 FEL Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99555 LONGITUDE: -109.50299 UTM SURF EASTINGS: 627795.00 NORTHINGS: 4428337.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22265 PROPOSED PRODUCING FORMATION(S): BLACKHAWK

SURFACE OWNER: 3 - State **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Bond: STATE/FEE - 22013542 Unit:

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Drilling Unit Oil Shale 190-13

Board Cause No: Cause 173-24 Water Permit: 43-8496

Effective Date: 10/5/2009 **RDCC Review:**

Siting: 460' Fr Exterior Lease Boundary Fee Surface Agreement

✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 5 - Statement of Basis - bhill 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason 25 - Surface Casing - hmacdonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Morgan State 921-36G1CS

API Well Number: 43047522840000

Lease Number: ML 22265 Surface Owner: STATE Approval Date: 3/20/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-24. The expected producing formation or pool is the BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-24, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or

Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 26139 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	RY NOTICES AND REPORTS O	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Morgan State 921-36G1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047522840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5M&TURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridi	an: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE [ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [FRACTURE TREAT	☐ NEW CONSTRUCTION
· I	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
5/26/2012	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date.		SITA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
MIRU TRIPPLE A BU RAN 14" 36.7# SCI	COMPLETED OPERATIONS. Clearly show al JCKET RIG. DRILLED 20" CON HEDULE 10 PIPE. CMT W/28 S ELL ON 05/26/2012 AT 1230	DUCTOR HOLE TO 40'. SX READY MIX. SPUD	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 29, 2012
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBE 435 781-7024	R TITLE Regulatory Analyst	
SIGNATURE		DATE	
N/A		5/29/2012	

RECEIVED: May. 29, 2012

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GA	AS Rig Name/# BUCKET RIG							
Submitted By J. Scharnowske	Submitted By J. Scharnowske Phone Number 720.929.6304							
Well Name/Number MORGAN STATE 921-36G1CS								
Qtr/Qtr <u>SENW</u> Section 36	Township <u>9s</u> Range <u>21E</u>							
Lease Serial Number ML 22265								
API Number <u>4304752284</u>								
Spud Notice – Spud is the initia out below a casing string.	spudding of the well, not drilling							
Date/Time <u>05/25/2012</u>	13:00 HRS AM PM							
<u>Casing</u> – Please report time cas times.	ing run starts, not cementing RECEIVED							
✓ Surface Casing								
Intermediate Casing	MAY 2 4 2012							
Production Casing Liner	DIV. OF OIL, GAS & MINING							
Other								
Date/Time 06/13/2012	08:00 HRS AM PM							
BOPE Initial BOPE test at surface BOPE test at intermediate 30 day BOPE test Other	5 i							
Date/Time	AM PM							
Remarks ESTIMATED DATE AND TIME. PLEA	ASE CONTACT KENNY GATHINGS AT							
435.828.0986 OR LOVEL YOUNG AT 435.781.70	51							

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

1368 SOUTH 1200 EAST

city VERNAL

zip 84078 state UT

Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752281	MORGAN STATE 921-36F1BS		SENW	36	98	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	pud Da	te	•	tity Assignment Effective Date
A	99999	18550	Ę	5/26/201	2	5	130 12012

MYRD

Comments:

MIRU TRIPPLE A BUCKET RIG.

SPUD WELL ON 05/26/2012 AT0730 HRS. BHL: Se nu

Well 2

API Number	Well	Well Name		Sec	Twp	Rng	County
4304752283	MORGAN STATE 92	ORGAN STATE 921-36G1BS		36	98	21E	UINTAH
Action Code	Current Entity Number	1		Spud Date		ity Assignment iffective Date	
Α	99999	19551	5	5/26/2012		51	30 12012
	J TRIPPLE A BUCKET D WELL ON 05/26/201;		MVRI HL: S		Đ		-

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County		
4304752284	MORGAN STATE 92	21-36G1CS	SENW	36	98	21E	UINTAH		
Action Code	Current Entity Number	New Entity Number	s	Spud Date		Spud Date		1	ity Assignment ffective Date
A	99999	18552	5	5/26/2012		513	3012012		
Comments: MIRI	m	murp							
SPU	D WELL ON 05/26/2012	2 AT 1230 HRS.	BHL:	Swr	\ 0				

ACTION CODES:

(5/2000)

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED Title

REGULATORY ANALYST

SHEILA WOPSOCK

Name (Please Print)

Date

5/29/2012

MAY 3 0 2012

Sundry Number: 26833 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9		
ι	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265		
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	pposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Morgan State 921-36G1CS				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047522840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 73779 720 929-0	9. FIELD and POOL or WILDCAT: 5M&TURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 86 Township: 09.0S Range: 21.0E Merio	dian: S	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
6/17/2012		SITA STATUS EXTENSION			
	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
MIRU AIR RIG ON 6 SURFACE CASING	COMPLETED OPERATIONS. Clearly show 6/14/2012. DRILLED SURFAC AND CEMENTED. WELL IS WANT JOB WILL BE INCLUDED WREPORT.	E HOLE TO 2720'. RAN AITING ON ROTARY RIG.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 20, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMB 720 929-6029	Regulatory Analyst I			
SIGNATURE N/A		DATE 6/18/2012			

Sundry Number: 28448 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, r FOR PERMIT TO DRILL form	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal of for such proposals.	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: Morgan State 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PH n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 3	IIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridian:	S	STATE: UTAH
11. CHECK	CAPPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
Date of Work Completion:	DEEPEN U	FRACTURE TREAT PLUG AND ABANDON	☐ PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	APD EXTENSION
8/2/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all po	ertinent details including dates, d	epths, volumes, etc.
No activity for the	month of July 2012. Surface c	asing set at 2,720'.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 07, 2012
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I	
SIGNATURE N/A		DATE 8/2/2012	

Sundry Number: 29615 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	Y NOTICES AND REPORTS ON	I WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	PH n Street, Suite 600, Denver, CO, 80217 37	IONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
Qtr/Qtr: SENW Section: 3	HP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridian	: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
Date of Work Completion:	L DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON RECLAMATION OF WELL SITE	L PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	□ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
9/5/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all p		
	r the month of August 2012. W	_	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 05, 2012
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II	
SIGNATURE	. 20 020 0001	DATE	
N/A		9/5/2012	

Sundry Number: 30268 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	SHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5MATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meri	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
9/13/2012	_	OTUER	OTHER:
	WILDCAT WELL DETERMINATION	U OTHER	
FINISHED DR PRODUCTION CASI OF CASING AN	COMPLETED OPERATIONS. Clearly show RILLING TO 9,707' ON 09/12/ NG. RELEASED H&P 318 RIC ID CEMENT WILL BE INCLUDE EPORT. WELL IS WAITING ON ACTIVITIES	2012. CEMENTED G ON 9/13/2012. DETAILS ED WITH THE WELL	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 28, 2012
NAME (DI EASE DDINT)	DUONE NUM	RED TITLE	
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUME 720 929-6857	BER TITLE Regulatory Analyst II	
SIGNATURE N/A		DATE 9/27/2012	

Sundry Number: 31641 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	G	5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	RY NOTICES AND REPORTS ON	I WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	PH h Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENW Section: 3	HIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridian	: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all p		CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: EPTHS, VOLUMES, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY NOVEMBER 05, 2012
NAME (B) 5405 55005	D 11212	Title	
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulartory Analyst	
SIGNATURE N/A		DATE 11/5/2012	

Sundry Number: 32587 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridi	an: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
12/3/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
			ļ
	completed operations. Clearly show a he month of November 2012		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 03, 2012
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBE 720 929-6304	Regulartory Analyst	
SIGNATURE	. 20 020 0004	DATE	
N/A		12/3/2012	

Sundry Number: 33566 API Well Number: 43047522840000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047522840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1799 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 36 Township: 09.0S Range: 21.0E Meridia	an: S	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT	water shutoff	SI TA STATUS EXTENSION	APD EXTENSION
Report Date: 1/3/2013		☐ SITA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	COMPLETED OPERATIONS. Clearly show all the month of December 2012	-	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 04, 2013
NAME (PLEASE PRINT)	PHONE NUMBE		
Laura Abrams	720 929-6356	Regulatory Analyst II	
SIGNATURE N/A		DATE 1/3/2013	

Sundry Number: 34193 API Well Number: 43047522840000

STATE OF UTAH DEPARTMENT OF MATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF OIL, GAS, AND MINING SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF OIL, GAS, AND MINING SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF OIL, GAS, AND MINING SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF SUCH PURPOSE AND REPORTS ON WELLS DIVISION OF SUCH PURPOSE AND REPORTS ON WELLS SUNDRY NOTICES AND REPORTS ON WELLS SUNDRY NOTICES AND REPORTS ON WELLS TUMIT OF CA AGREEMENT NAME: **WELL NAME and NUMBER:** ANDRESS OF PORTSON: **LEAST ON TOWN STATE 221-9651GS **JEELS						
DIVISION OF OIL, GAS, AND MINING SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill now wells, significantly deepen existing wells below reported by the proposals. TUNIT or CA AGREEMENT NAME: 7. UNIT or CA AGREEMENT NAME: 7. UNIT or CA AGREEMENT NAME: 8. WELL NAME and NUMBER: MORGAN STATE 921-36G1CS 9. PHONE NUMBER: 43.04 PRUMER: 43.04 PRUM						FORM 9
Do not use this form for proposals to drill new wells, spinlicantly deepen existing wells below current bottom-hole dopin, reenter plugged wells, or to drill horizontal fatorals. Use APPLICATION FOR PERMIT TO PRILL form for such proposals. 1.17FE OF WELL 3.ADDRESS OF OPERATOR: 4.10CATION OF SUCH PROPERTY OF SUBMISSION 3.ADDRESS OF OPERATOR: 4.10CATION OF WELL 4.10CATION	1				I	
DATES DETAILED TO STATE PURISHER HOLDS AND SEMENT OF SUCH PROPERTY OF WELL 1.17YE OF WELL 3. ADDRESS OF OPERATOR: KERR-MICOEE CIL & GAS ONSHORE, L.P. 3. ADDRESS OF OPERATOR: KERR-MICOEE CIL & GAS ONSHORE, L.P. 3. ADDRESS OF OPERATOR: KERR-MICOEE CIL & GAS ONSHORE, L.P. 3. ADDRESS OF OPERATOR: LOCATION OF WELL POOL TAST 19 (1999 16th Street, Suite 600, Denver, CO, 80217 3779 720 929- (SNATERLA BUTTES 1.1 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.2 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.3 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.4 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF ACTION 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 1.5 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OF NOTICE, REPOR	SUNDR	RY NOTICES AND REPORTS	S ON '	WELLS	6. IF INDIAN	N, ALLOTTEE OR TRIBE NAME:
Cas Well NAME OF DEFENTOR NAME (PLEASE PRINT) NA	current bottom-hole depth,	reenter plugged wells, or to drill horiz			7.UNIT or C	A AGREEMENT NAME:
ADDRESS OF OPERATOR: PO. BOX 173779 1099 1815 STREET, Suite 600, Denver, CO. 80217 3779 720 929 5 NATERRAL BUTTES 4.LOCATION OF WELL FOOTAGES AT SURFACE: 1530 FNL 1798 FWL. 1017 SENW Section: 36 Township: 93.0S Range: 21.0E Meridian: S TYPE OF SUBMISSION TYPE OF ACTION TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE SATISE UITAH ACIDIZE CHANGE THE HATUS CHANGE THE HATUS					1	
ALCACATION OF WELL FOOTAGES AT SUPFACE: 1530 FIN. 1799 F.WL OTRIVITR, SECTION, TOWNSHIP, RANGE, MERIDIAN: CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF SUBMISSION ACCIDE APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ACCIDE APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ACCIDE ACCIDENT SERVIT APPROXIMATE ACIDEN BOTHER OF INTENT APPROXIMATE ACIDENT BOTHER OF INTENT APPROXIMATE ADAPT BOTHER OF INTENT APPROXIMATE ADAPT BOTHER OF INTENT BOTHER OF INTENT APPROXIMATE ADAPT BOTHER OF INTENT		NSHORE, L.P.			I	
FOOTAGES AT SURFACE: 1530 FNL 1796 FWL OTR/ORF, SECTION, TOWNSHIP, RANGE, MERIDIAN: OTR/ORF, SECTION, TOWNSHIP,		h Street, Suite 600, Denver, CO, 802			1	
TATATE: UTAH 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION TYPE OF ACTION TYPE OF ACTION ACIDIZE ALTER CASING CHANGE TURKS CHANGE TURK	FOOTAGES AT SURFACE:				I	
TYPE OF SUBMISSION TYPE OF ACTION ACRICE ALTER CASING CASING REPART CHANGE TO INTENT Approximate data work will start! SUBSEQUENT REPORT Date of Work Completion: Date of Work Completion: Date of Spuid: POPERATOR CHANGE PRODUCTION START OR RESUME PRODUCTION START OR RESUME REPORT COMMORE SPAINT Report Re	QTR/QTR, SECTION, TOWNSH		ridian: \$	S	I	
ACIDIZE		K APPROPRIATE BOXES TO INDICA	ATE NA	ATURE OF NOTICE, REPOR	T, OR OTH	IER DATA
CHANGE TUBING CHANGE WORK WIll SIMPLE CHANGE TO PREVIOUS PLANS CHANGE TUBING CHANGE WELL NAME CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIONS CONVERT WELL TYPE CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIONS CONVERT WELL TYPE DEEPEN FRACTURE TREAT NEW CONSTRUCTION NEW CONSTRUCTION PLUG BACK PROPOSED OR COMPETER OF FRACTURE TREAT NEW CONSTRUCTION NEW CONSTRUCTION PLUG BACK PROPOSED OR COMPETER OF FRACTURE TREAT NEW CONSTRUCTION NEW CONSTRUCTION SIDETRACK TO REPAR WELL TEMPORARY ABANDON PLUG BACK NEW FAIRE NEW COMPETION NEW	TYPE OF SUBMISSION			TYPE OF ACTION		
Apperciante date work will start: CHAMGE WELL STATUS		ACIDIZE		LTER CASING	☐ ca	SING REPAIR
SUBSIGNATURE CHANGE WELL STATUS PRODUCTION STATAT OR RESUME RECLAMATION OF WELL SITE RECOMPLETE DIFFERENT FORMATION PLUG BACK RECLAMATION OF WELL SITE RECOMPLETE DIFFERENT FORMATION DID RELLING REPORT RECOMPLETE DIFFERENT FORMATION DID RELLING REPORT WATER DISPOSAL The Subject well was placed on production on 01/28/2013. The Chronological Well History will be submitted with the well completion report. NAME (PLEASE PRINT) Lindsey Frazier 720 929-8857 TITLE Regulatory Analyst II SIGNATURE DATE		CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	Сн	IANGE WELL NAME
Date of Work Completion: OPERATOR CHANGE PROTURE TREAT NEW CONSTRUCTION PLUG BACK		CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	□ cc	ONVERT WELL TYPE
SPUD REPORT Date of Spud: Date		DEEPEN	☐ FI	RACTURE TREAT	□ NE	W CONSTRUCTION
Datie of Spud: REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARY ABANDON TUBING REPAIR VENT OR FLARE WATER DISPOSAL Report Date:		OPERATOR CHANGE	P	LUG AND ABANDON	PL	UG BACK
Date of Spud: REPERFORATE CURRENT FORMATION SIDETRACK TO REPAR WELL TEMPORARY ABANDON WATER DISPOSAL WATER DISPOSAL WATER DISPOSAL WATER SHUTOFF SITA STATUS EXTENSION APD EXTENSION OTHER: MATER SHUTOFF SITA STATUS EXTENSION APD EXTENSION OTHER: MATER SHUTOFF SITA STATUS EXTENSION OTHER: MATER SHUTOFF MATER SHUTOFF MATER SHUTOFF SITA STATUS EXTENSION OTHER: MATER SHUTOFF MATER SHUTOFF SITA STATUS EXTENSION OTHER: MATER SHUTOFF MATER SHUTOFF MATER SHUTOFF MATER SHUTOFF SITA STATUS EXTENSION OTHER: MATER SHUTOFF MATER SHU	SPUD REPORT	✓ PRODUCTION START OR RESUME	□ R	ECLAMATION OF WELL SITE	RE	COMPLETE DIFFERENT FORMATION
DRILLING REPORT WATER SHUTOFF SITA STATUS EXTENSION OTHER		REPERFORATE CURRENT FORMATION	☐ s	IDETRACK TO REPAIR WELL	□ те	MPORARY ABANDON
Report Date: 1/28/2013 WILDCAT WELL DETERMINATION OTHER OTHER		TUBING REPAIR	□ v	ENT OR FLARE	□ w	ATER DISPOSAL
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 01/28/2013. The Chronological Well History will be submitted with the well completion report. NAME (PLEASE PRINT) Lindsey Frazier 720 929-6857 PHONE NUMBER TITLE Regulatory Analyst II SIGNATURE OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: ITILE Regulatory Analyst II DATE	DRILLING REPORT Report Date:	WATER SHUTOFF	□ s	I TA STATUS EXTENSION	☐ AF	D EXTENSION
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 01/28/2013. The Chronological Well History will be submitted with the well completion report. **NAME (PLEASE PRINT)** Lindsey Frazier** TITLE Regulatory Analyst II SIGNATURE **DATE** **DATE** **DITATION COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. **Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 30, 2013 **TITLE Regulatory Analyst II SIGNATURE **DATE**		WILDCAT WELL DETERMINATION		THED	OTHER:	i
The subject well was placed on production on 01/28/2013. The Chronological Well History will be submitted with the well completion report. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 30, 2013 NAME (PLEASE PRINT) PHONE NUMBER Lindsey Frazier 720 929-6857 TITLE Regulatory Analyst II SIGNATURE DATE				THER		
Lindsey Frazier 720 929-6857 Regulatory Analyst II SIGNATURE DATE	The subject wel	II was placed on production I History will be submitted v	n on (01/28/2013. The	Ac Ut Oil, FOR	cepted by the ah Division of Gas and Mining RECORD ONLY
Lindsey Frazier 720 929-6857 Regulatory Analyst II SIGNATURE DATE						
Lindsey Frazier 720 929-6857 Regulatory Analyst II SIGNATURE DATE						
			IBER			
I 1/₹3/₹013	SIGNATURE N/A			DATE 1/29/2013		

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

MAR 0 5 2013

AMENDED REPORT ☐

(highlight	change	es	٤)	

FORM 8

DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: DIV. OF OIL, GAS & MINING ML 22265

WEL	L COMI	PLET	ION	OR F	RECO	MPLE	ETIC	N RI	EPOR	T AND	LOG	6. IF	INDIAN, A	ALLOTTEE OR TR	BE NAME
1a. TYPE OF WELL		OIL		l ç	SAS WELL	7 D	RY		ОТН	ER		7. U	NIT or CA	AGREEMENT NAM	ΛE
b. TYPE OF WORK NEW WELL	(: HORIZ. LATS	DE EN	EP-	l E	RE- ENTRY] R	IFF. ESVR.		отн	ER				E and NUMBER: SAN STATE	921-36G1CS
2. NAME OF OPERA		 _ & GA	S ON	SHOR	E, L.P).							PI NUMBE		<u> </u>
3. ADDRESS OF OF P.O.BOX 17		Cl	TY DE	NVER	 _	STATE	co	ZIP 80 2	 217		NUMBER: 20) 929-6000	10 F	IELD AND	POOL, OR WILDO RAL BUTTE	
4. LOCATION OF W	eraze foresonese e	GES)	A			- 1 <u>- 4, 1</u> 1, 185, 171, 18	64 7-648 (98)	<u> </u>						SECTION, TOWN	
AT SURFACE:	SENW 1	530 F	VL 17	99 FW	/L S36	,T9S,R	21E					4 4 4 4 4 4 4 4	the American	36 9S	and the second of the second
AT TOP PRODU	CING INTERV	AL REPOR	TED BEL	.ow: S	WNE	1886 F	NL 1	822 F	EL S36	5,T9S,R	21E			STREET STATES	al ne delimina de la
AT TOTAL DEPT	н: SWNI	E 1909	FNL	1822	FEL S	36,T9S	,R21	E					OUNTY JINTAI		13. STATE UTAH
14. DATE SPUDDED 5/26/2012		5. DATE T.I 9/12/2		HED:	247474 4 427574 8	E COMPLET 3/2013	ED:	,	ABANDONI	■ D □	READY TO PRODUC	CE 🚺		ATIONS (DF, RKE	, RT, GL):
18. TOTAL DEPTH:	٠,,,	and the second property	1	9. PLUG	BACK T.D	.: MD 9	,639		20. IF N	MULTIPLE CO	OMPLETIONS, HOW	MANY? *		TH BRIDGE MD JG SET:	
OO TYPE ELECTRIC	TVD 9,4					TVD 9	,362			т				TVI)
22. TYPE ELECTRIC		(MECHANI	ICAL LOG	35 RUN (5	Submit cop	y of each)				WAS DST	L CORED? RUN? NAL SURVEY?	NO NO	✓	ES (Subi	mit analysis) mit report) mit copy)
24. CASING AND LI	NER RECORD) (Report a	II strings	set in we	÷II)					·!				<u>, , , , , , , , , , , , , , , , , , , </u>	
HOLE SIZE	SIZE/GRA	DE ,	WEIGHT	(#/ft.)	TOP (MD)	вотто	M (MD)		EMENTER PTH	CEMENT TYPE & NO. OF SACKS	SLUF VOLUMI		CEMENT TOP **	AMOUNT PULLED
20"	14"	STL	36.7	7#	0		4	0			28				 -
11"	8 5/8"	IJ-55	287	#	0		2,7	'15			610			0	
7 7/8"	4 1/2"	1-80	11.6	S#	0		9,6	86			1,562			1070	
							,								
	<u>-</u>											<u> </u>			<u> </u>
25. TUBING RECOR	DEPTH S	PET (MP)	I DAOK	D OFF (A	,, T	0175		D.F.O.T.		1					
2 3/8"	9,0		PACK	ER SET (N	/(D)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)	SIZE		EPTH SET (MD)	PACKER SET (MD)
26. PRODUCING IN			<u> </u>						T	27. PERFO	RATION RECORD				
FORMATION	NAME	TOP (MD)	ВОТТО	M (MD)	TOP (T	VD)	вотто	M (TVD)		L (Top/Bot - MD)	SIZE	NO. HOL	ES PERFO	RATION STATUS
(A) WASATC	Н	6,2	31	7,5	517					6,231	7,517	0.36	87	Open 🗸	Squeezed
(B) MESAVE	RDE	7,6	83	9,5	527					7,683	9,527	0.36	162	Open 🗸	Squeezed
(C)														Open	Squeezed
(D)					-									Open	Squeezed
28. ACID, FRACTU	RE, TREATME	NT, CEME	NT SQUE	EZE, ETC).										
DEPTH	NTERVAL								AMO	T DNA TNUC	YPE OF MATERIAL				
6231-9527			PUN	IP 13,	529 BI	3LS SL	ICK	H2O 8	327.5	84 LBS	30/50 OTTA	WA SA	ND		
				TAGE							.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
29. ENCLOSED AT	TACHMENTS:									-				30. WEL	L STATUS:
	RICAL/MECHA			CEMENT	VERIFICA	ATION		GEOLOGI	C REPOR	=	DST REPORT	DIREC	TIONAL S	URVEY	PROD

24	INSTRAC	PRODUCTION	

INTERVAL A (As shown in item #26)

DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED	D:	TEST PRODUCTION	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
1/28/2013	3	2/1/2013		2	24		24 RATES: →		0	2,670	0	FLOWING
20/64	TBG. PRESS. 1,200	CSG. PRESS. 2,500	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF: 2,670	WATER - BBL:	INTERVAL STATUS PROD		
			-	INT	ERVAL B (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS		
				INT	ERVAL C (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD;		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER BBL:	INTERVAL STATUS:		
				INT	ERVAL D (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER – BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG, PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER BBL:	INTERVAL STATUS:		
32. DISPOSITIO SOLD	N OF GAS (Sold	Used for Fuel, Ve	ented, Etc.)	<u></u>					<u> </u>	<u> </u>		
33. SUMMARY	OF POROUS ZON	IES (Include Aqui	fers);			34	. FORMATION	(Log) MARKERS:				

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,325 1,645 2,133 4,855 7,551
					:

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ½" bit. The remainder of surface hole was drilled with an 11" bit. DQX csg was run from surface to 4941'; LTC csg was run from 4941' to 9686'. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all a st	vailable records.
------------------------------------------------------------------------------------------------------------------------	-------------------

NAME (PLEASE PRINT) LINDSEY FRAZIER

TITLE REGULATORY ANALYST

SIGNATURE

DATE 2-2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION

Operation Summary Report

Well: MORGAN	STATE	921 - 36G1CS	YELLOW	AND ASSESSMENT OF PARTY OF	entaine de la la	and the Albert Table	neder-Lieb	Snud Data: 6/4/	U2012
				Site: MOE	Spud Date: 6/14/				
					RGAN STATE 921-36F2 PAD				Rig Name No: H&P 318/318, CAPSTAR 310/310 End Date: 9/13/2012
Event: DRILLING Start Dat Active Datum: RKB @5,018.00usft (above Mean Sea					e: 5/23/2012				
Active Datum: R Level))18.00usft (a	bove Mean Se	ea	UWI: SE	JWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1530/W/0/1799/0/0				
_ Date _	\$ 100 E CONTROL	Time	Duration (hr)	Phase	Code	Sub	P/U	MD From (usft)	Operation ()
6/14/2012	0:00	- 3:00	3.00	PRPSPD	01	С	Р	L	SKID RIG, RIG UP
	3:00	- 6:00	3.00	PRPSPD	01	В	P		WELD ON ROTATING HEAD, BUILD NEW FLOW LINE
	6:00	- 8:00	2.00	PRPSPD	01	В	Р		PICK UP BHA, AIR OUT PUMPS
	8:00	- 10:00	2.00	PRPSPD	02	Ď	P		SPUD
									DRILL 12.25" SURFACE HOLE F/ 49'-210' ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=720/500
									GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 32/28/30
									NO LOSSES
	10.00								HOLE IN GOOD SHAPE
		- 10:30	0.50	PRPSPD	06	Α	Р		TRIP OUT OF HOLE, LAY DOWN BIT
		- 12:30	2.00	PRPSPD	06	Α	P		PICK UP 11.00" BIT AND DIRECTIONAL TOOLS, SCRIBE, TRIP IN HOLE
		- 0:00	11.50	PRPSPD	02	D	P		DRILL 11.00" SURFACE HOLE F/ 210'-1130' ROP= 161' @ 81 FPH WOB= 22/30K RPM= 55/105 SPP=850/600 GPM= 595 TRQ= 2900/1900 PU/SO/ROT = 72/60/65 NO LOSSES HOLE IN GOOD SHAPE
6/15/2012	0:00	- 21:00	21.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F1130'-2264' ROP= 161' @ 81 FPH WOB= 22/30K
									RPM= 55/105 SPP=850/600 GPM= 595 TRQ= 2900/1900 PU/SO/ROT = 72/60/65 NO LOSSES
									HOLE IN GOOD SHAPE
									ON AIR 500CFM
	21:00	- 0:00	3.00	DRLSUR	06	Н	Z		FAILURE: MWD TOOL. 2264', PULLOUT OF HOLE, LAY DOWN BIT AND BAD TOOL. PICK UP NEW TOOL
									MOTOR FAILURE (SN 800-1050) DUE TO WORN OUT BEARINGS IN MANDREL SECTION OF MOTOR. CAUSING SEALS TO RUPTURE AND FLUID TO LEAK AROUND MANDREL. THIS CASUED A LOSS IN PRESSURE AND MOTOR STALLING.

PRESSURE AND MOTOR STALLING

Well: MORGAN S				Compagnition of the company		and the second second		Spud Date: 6/14/2012	
Project: UTAH-UI				Site: MOF	RGAN ST	ATE 921-	36F2 PA		
Event: DRILLING				Start Date			1	End Date: 9/13/2012	
Active Datum: R			oove Mean S		_		S/21/E/3	6/0/0/26/PM/N/1530/W/0/1799/0/0	
Level)	J-14								
≟ Date	, St	Time tart-End	Duration (hr)	Phase	Code	Sub Code	P/U , :	MD From Operation (usft)	
6/16/2012	0:00	- 0:30	0.50	DRLSUR	06	Н	Z	FAILURE: MWD TOOL. 2264', PULLOUT OF HOLE, LAY DOWN BIT AND BAD TOOL. PICK UP NEW TOOL	
	0.00							MOTOR FAILURE (SN 800-1050) DUE TO WORN OUT BEARINGS IN MANDREL SECTION OF MOTOR. CAUSING SEALS TO RUPTURE AND FLUID TO LEAK AROUND MANDREL. THIS CASUED A LOSS IN PRESSURE AND MOTOR STALLING	
-	0:30	- 2:30	2.00	DRLSUR	06	H	Z	LAY DOWN BIT AND DIRECTIONAL TOOLS, LAY DOWN MOTOR. PIC UP NEW MOTOR	
	2:30	- 3:30	1.00	DRLSUR	06	Н	S	START TRIP IN HOLE. STOP TRIP AT 984'. REPAIR RIG, CHANGE DISC BRAKES OUT	
	3:30 4:30	- 4:30	1.00	DRLSUR	08	A	Z	CHANGE OUT DISC BRAKES	
2.25	8:00	- 8:00 - 15:00	3.50 7.00	DRLSUR	06	A D	P P	WAS AND REAM FROM 1793' TO 2264'	
	0.00	- 15,00	7.00	DRLSUR	02	U	P	DRILL 11.00" SURFACE HOLE F2264'-2720' ROP= 456' @ 65' FPH WOB= 22/30K	
1 1 1 1								RPM= 55/105	
								SPP=1000/705 GPM= 595	
								TRQ= 2900/1900	
La C								PU/SO/ROT = 115/85/96	
								HÖLE TIGHT	
	15:00	- 15:30	0.50	DRLSUR	05	С	Р	ON AIR 600CFM CIRCULATE PRIOR TO TRIP	
	15:30	- 19:30	4.00	DRLSUR	06	Ď	Р	PULL OUT OF HOLE, LAY DOW BIT AND	
								DIRECTIONAL TOOLS. RIG UP TO RUN CASING	
	19:30	- 23:00	3.50	CSGSUR	12	С	Р	PJSM /// RUN 61 JT'S, 8-5/8", 28#, J-55, LT&C CSG	
	23:00	- 0:00	1.00	CSGSUR	12	В	P	/// SHOE SET @ 2691' /// BAFFLE @ 2645'	
6/17/2012	0:00	- 3:30	3.50	CSGSUR	12	E	P	RIG UP CEMENTERS, PJSM, START CEMENT PJSM WITH PRO PETRO CMT CREW PUMP 20	
								BBLS WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 250sx CLASS 5 CMT @ 11.0 WT & 3.82 // IELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 // IELD /// DROP PLUG & DISPLACE W/ 162 BBL'S WATER /// PLUG DN @ 01:15 06/17/2012 /// BUMP PLUG W/ 650 PSI /// FINAL LIFT = 350 PSI /// CHECK FLOATS -FLOAT HELD //NO CMT TO SURFACE	
								TOP OUT W/ 160 sx CLASS G CMT & 15.8 WT &	
	3:30	. 4:00	A 65	00000	ن م		В	1.15 YIELD // NO CMT TO SURFACE	
	5,30	- 4:00	0.50	CSGSUR	01	С	Р	RIG RELEASED 0400	
								RIG DOWN TO SKID TO MORGAN STATE 921-36F1CS, WELL 4 OF 4	
9/7/2012	6:00	- 6:30	0.50	RDMO	01	E	P -	PREPARE RIG F/ SKID	
	6:30 7:00	- 7:00 - 7:30	0.50	MIRU3	01	C	P	SKID RIG	
	7:00	- 7:30 - 9:00	0.50 1.50	MIRU3	01	В	Р	RIG UP ROTARY TOOLS	
	7.50	- a,uu	1.00	PRPSPD	14	. A	Р	NIPPLE UP BOP & EQUIPMENT	

Operation Summary Report

Drojoct: UTAU U	INITALL			Cita: NACE	CANOT	ATE 00	4 0050 511	D'. N N				
Project: UTAH-U				Site: MOF	GAN ST	ATE 92	1-36F2 PAI	Rig Name No: H&P 318/318, CAPSTAR 310/	310			
Event: DRILLING		-		Start Date				End Date: 9/13/2012				
Active Datum: Rh	(B @5,0	18.00usft (ab	ove Mean Se	a	UWI: SE	/NW/0/	9/S/21/E/36	/0/0/26/PM/N/1530/W/0/1799/0/0				
.evel)	I ve to Island to the	No. Apply 600 To compared		T-07-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-								
Date 4	. ⊩St	Time art-End	Duration (hr)	Phase //	Code	Sub Code	P/U	MD From Operation (usft)				
	9:00	- 15:30	6.50	PRPSPD	15	Α	Р	SAFETY MEETING W/ A-1 TESTING , RIG UP	& TEST			
								BOP, IBOP, LOWER KELLY VALVE, FLOOR				
								PIPE RAMS, BLIND RAMS, HCR, WING VALV	ES			
								CHOKE MANIFOLD , CHECK VALVE LOW 250				
								5,000 PSI ANN LOW 250 PSI HIGH 2500 PSI				
								1500 FOR 30 MINS, TEST NOV SWACO CHO				
								LINES & ORBIT VALVE TO 1,000 PSI OK, RI	G			
								DOWN TESTER				
								(HAD TO CHANGE OUT O-RING GASKET OF	N			
	15:30	- 17:00	1.50	PRPSPD	06	Α	P	BEARING PACK)				
		17,00	1.00	. 14 01 0	50	Α.	r	PICKUP SMITH MDI 616 BIT , SDI .22 RPG/1.				
								ERT MOTOR, MWD, ORIENT MWD TRIP IN H	OLE IP			
	17:00	- 18:00	1.00	PRPSPD	09	Α	Р	1130' INSTALL DRILL RUBBER SLIP & CUT 206' DRILLING LINE				
		- 19:00	1.00	PRPSPD	06	. ^	P					
		- 20:00						TRIP IN HOLE, TAG CEMENT @ 2570'				
			1.00	PRPSPD	02	F	Р	DRILL CEMENT & FLOAT EQUIPMENT F/ 257 2735', 80 SPM, 360 GPM, WOB 5/15	OT O			
	20:00	- 0:00	4.00	DRLPRC	02	D	Р	DRILL F/ 2735' TO 3110', 375' @ 93.7' HR				
								WEIGHT ON BIT 22				
								REVALUTIONS PER/MINUTE 52				
								STROKES PER/MINUTE 120				
								GALLONS PER/MINUTE 540				
								PUMP PRESSURE ON/OFF 1700/1300				
								TORQUE ON/OFF 7/4				
								UP/SLACK OFF/ ROTATE 113/75/91				
								MUD WEIGHT 8.5 , VISCOSITY 27				
								ROTATE: 273' IN 2.58 HRS = 105.8' HR				
								SLIDE: 102' IN 1.42 HRS = 72' HR				
								NOV: DEWATERING NO LOSSES				
9/8/2012	0:00	- 6:00	6.00	DRLPRC	02	D	P					
			2,30	-, IV		,	•	DRILL F/ 3110' TO 3676' , 566' @ 94.3' HR WEIGHT ON BIT 22				
								REVALUTIONS PER/MINUTE 52/119				
								STROKES PER/MINUTE 120				
								GALLONS PER/MINUTE 540				
								PUMP PRESSURE ON/OFF 1700/1300				
								TORQUE ON/OFF 7/4				
								UP/SLACK OFF/ ROTATE 117/81/96				
								MUD WEIGHT 8.5 , VISCOSITY 26				
								ROTATE: 388' IN 2.83 HRS = 137.1' HR				
								SLIDE: 178' IN 3.17 HRS = 56.1' HR				
								NOV: DEWATERING				
								NO LOSSES				

2/13/2013 10:01:37AM

MALE MODOAN C	TATE	04 000400	NELL ON		× 410 ×			ary Report	
Well: MORGAN S Project: UTAH-UII		21-366168	YELLOW	Site: MOE	PGAN ST	ATE 021	I-36F2 PA	Spud Date: 6/14/2012 Pig Name No: HSD 246/249, CARCTAR 246/249	
				-			1-36F2 PA		
Event: DRILLING		10 00	have Mass Co	Start Date			IS IO 1 IE IO	End Date: 9/13/2012	
Active Datum: RK Level)	.B @5,0	18.000sπ (ε	ibove Mean Se	a	UVVI. SE	:/NVV/U/S	3/3/2 I/E/3	6/0/0/26/PM/N/1530/W/0/1799/0/0	
Date	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Time art-End	Duration (hr)	Phase	Code	-Sub :	-P/U	MD From Operation (usft)	
		- 16:30	10.50	DRLPRC	02	D	P	DRILL F/ 3110' TO 4334', 1224' @ 116.5' HR WEIGHT ON BIT 22/24 REVALUTIONS PER/MINUTE 48-52/119 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 1830/1470 TORQUE ON/OFF 9/5 UP/SLACK OFF/ ROTATE 146/100/114 MUD WEIGHT 8.5, VISCOSITY 27 ROTATE: 1038' IN 5.74 HRS = 180.8' HR SLIDE: 186' IN 4.76 HRS = 39' HR NOV: DEWATERING NO LOSSES	
	16:30	- 17:00	0.50	DRLPRC	07	Α	Р	RIG SERVICE	ŀ
	17:00	- 0:00	7.00	DRLPRC	02	D	P	DRILL F/ 4334' TO 4810', 476' @ 68' HR WEIGHT ON BIT 22/24 REVALUTIONS PER/MINUTE 48-55/119 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 1775/1380 TORQUE ON/OFF 9/6 UP/SLACK OFF/ ROTATE MUD WEIGHT 8.5, VISCOSITY 27 ROTATE: 336' IN 3.08 HRS = M109' HR SLIDE: 140' IN 3.92 HRS = 35.7' HR NOV: DEWATERING NO LOSSES	
9/9/2012	0:00	- 7:30	7.50	DRLPRC	02	D	P	DRILL F/4810' TO 5377', 567' @ 75.6' HR WEIGHT ON BIT 22/24 REVALUTIONS PER/MINUTE 52-55/119 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 1800/1400 TORQUE ON/OFF 9/6 UP/SLACK OFF/ ROTATE 155/96/120 MUD WEIGHT 8.6, VISCOSITY 27 ROTATE: 475' IN 4.16 HRS = 114.1' HR SLIDE: 92' IN 3.34 HRS = 27.5' HR NOV: DEWATERING NO LOSSES (HAVING A HARD TIME SLIDING DUE TO MOTOR STALLING)	
	7:30	- 8:00	0.50	DRLPRC	05	Ċ	Z	*** MOTOR FAILURE *** CIRCULATE, BUILD & PUM PILL	P
	8:00	- 11:30	3.50	DRLPRC	06	Α	Z	*** MOTOR FAILURE*** TRIP OUT OF HOLE, LAY DOWN MOTOR & BIT	
	11:30	- 14:00	2.50	DRLPRC	06	Α	Z	*** MOTOR FAILURE*** PICK UP NEW SMITH MDI 6 BIT, SDI .23 RPG/1.5 BEND MOTOR, ORIENT MWD TRIP IN HOLE	

US ROCKIES REGION Operation Summary Report

Well: MORGAN	STATE 9	21-36G1CS	YELLOW					Spud Date: 6/1	2012	
Project: UTAH-L	JINTAH			Site: MOF	RGAN ST	ATE 921	-36F2 PAD	1	Rig Name No: H&P 318/318, CAPSTAR 310/310	
Event: DRILLING	G			Start Date	: 5/23/20	012			End Date: 9/13/2012	
Active Datum: R .evel)	KB @5,0	18.00usft (a	bove Mean S	ea	UWI: SE	E/ NW /0/9	/S/21/E/36	/0/0/26/PM/N/15	30/W/0/1799/0/0	
Date	Ed Constitution	Time art-End	Duration (hr)	Phase	Code	Sub Code	P/Ü	MD From (usft)	Operation	
	14:00	- 18:30 - 19:00 - 0:00	0.50 5.00	DRLPRC DRLPRC	02 22 02	D D	P X	(usin)	DRILL F/ 5377' TO 5857', 480' @ 106.6' HR WEIGHT ON BIT 22/25 REVALUTIONS PER/MINUTE 52-55/124 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 2250/1690 TORQUE ON/OFF 10/7 UP/SLACK OFF/ ROTATE 190/102/136 MUD WEIGHT 8.6, VISCOSITY 27 ROTATE: 431' IN 2.67 HRS = 161.4' HR SLIDE: 49' IN 1.83 HRS = 26.7' HR NOV: DEWATERING LOST 100 BBLS TO SEEPAGE PUMPING LCM SWEEPS ***LOST CIRC***, PUMP LCM SWEEP, LOST 160 BBLS BEFORE GETTING CIRC BACK DRILL F/ 5857' TO 6413', 556' @ 111.2' HR WEIGHT ON BIT 22/25 REVALUTIONS PER/MINUTE 52-55/124 STROKES PER/MINUTE 540 PUMP PRESSURE ON/OFF 2070/1690 TORQUE ON/OFF 12/8 UP/SLACK OFF/ ROTATE 197/106/138 MUD WEIGHT 8.6, VISCOSITY 27 ROTATE: 496' IN 2.67 HRS = 185.7' HR SLIDE: 60' IN 2.33 HRS = 25.7' HR NOV: DEWATERING LOST 40 BBLS TO SEEPAGE	
9/10/2012	0:00	- 6:00	6.00	DRLPRV	02	В	P		DRILL F/ 6413' TO 6979', 566' @ 94.3' HR WEIGHT ON BIT 22/25 REVALUTIONS PER/MINUTE 52-55/124 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 2100/1700 TORQUE ON/OFF 12/8 UP/SLACK OFF/ ROTATE 200/109/142 MUD WEIGHT 8.7, VISCOSITY 26 ROTATE: 544' IN 4.67 HRS = 116.4' HR SLIDE: 22' IN 1.33 HRS = 16.5' HR NOV: DEWATERING LOST 160 BBLS TO SEEPAGE PUMPING LCM SWEEPS	

Well: MORGAN	I STATE 921-36G1CS	YELLOW					Spud Date: 6/	14/2012	
Project: UTAH-I	UINTAH		Site: MO	RGAN ST	ATE 921-	-36F2 PAI)	Rig Name No: H&P 318/318, CAPSTAR 310/310	
vent: DRILLIN	IG		Start Dat	e: 5/23/20)12			End Date: 9/13/2012	
ctive Datum: F evel)	RKB @5,018.00usft (a	bove Mean S	ea	UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1530/W/0/1799/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	17:30 - 18:00 18:00 - 0:00	0.50 6.00	DRLPRV DRLPRV	07 02	А В	P P		DRILL F/ 6979' TO 7828', 849' @ 73.8' HR WEIGHT ON BIT 22/25 REVALUTIONS PER/MINUTE 55/66/124 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 2240/1830 TORQUE ON/OFF 15/12 UP/SLACK OFF/ ROTATE 265/120/165 MUD WEIGHT 8.6, VISCOSITY 27 ROTATE: 815' IN 9.41 HRS = 86.6' HR SLIDE: 34' IN 2.09 HRS = 16.2' HR NOV: DEWATERING LOST 220 BBLS TO SEEPAGE PUMPING LCM SWEEPS RIG SERVICE DRILL F/ 7828' TO 8200', 373' @ 62.1' HR WEIGHT ON BIT 22/26 REVALUTIONS PER/MINUTE 60-65/124 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 2130/1925 TORQUE ON/OFF 17/15 UP/SLACK OFF/ ROTATE 272/122/170 START LIGHT MUD UP @ 7600' MUD WEIGHT 8.9, VISCOSITY 32 ROTATE: 351' IN 4.83 HRS = 72.6' HR SLIDE: 22' IN 1.17 HRS = 18.8' HR NOV: RUNNING CONVENTIONAL 2 HRS ON 2 HRS OFF	
9/11/2012	0:00 - 6:00	6.00	DRLPRV	02	В	P		PUMPING LCM SWEEPS DRILL F/ 8200' TO 8583', 383' @ 63.8' HR WEIGHT ON BIT 22/26 REVALUTIONS PER/MINUTE 60-65/124 STROKES PER/MINUTE 120 GALLONS PER/MINUTE 540 PUMP PRESSURE ON/OFF 2150/1950 TORQUE ON/OFF 17/16 UP/SLACK OFF/ ROTATE MUD WEIGHT 8.9 , VISCOSITY 32 ROTATE: 361' IN 4.75 HRS = 76' HR SLIDE: 22' IN 1.25 HRS = 17.6' HR SWACO ON LINE THROUGH GUT LINE FULL OPEN @ 8200', 140 PSI NOV: RUNNING CONVENTIONAL 2 HRS ON 2 HRS OFF NO LOSSES PUMPING LCM SWEEPS	

2/13/2013 10:01:37AM

Well: MORGAN		21-36G1CS	YELLOW					ud Date: 6/14/2012
Project: UTAH-	UINTAH			Site: MOI	RGAN ST	ATE 921	-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
event: DRILLIN	1G			Start Date	e: 5/23/20	012		End Date: 9/13/2012
ctive Datum: evel)	RKB @5,0	18.00usft (al	oove Mean Se	ea	UWI: SI	E/ NW /0/9	/S/21/E/36/0/0	/26/PM/N/1530/W/0/1799/0/0
Date	5.5	Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)
	6:00	- 17:30	11.50	DRLPRV	02	B		DRILL F/ 8583' TO 9338' , 755' @ 65.6' HR
								WEIGHT ON BIT 22/26
								REVALUTIONS PER/MINUTE 62/68/124
								STROKES PER/MINUTE 120
								GALLONS PER/MINUTE 540
								PUMP PRESSURE ON/OFF 2450/2100
								TORQUE ON/OFF 17/14
								UP/SLACK OFF/ ROTATE 306/140/189
								MUD WEIGHT 9.1 , VISCOSITY 31
								ROTATE: 725' IN 9.67 HRS = 74.9' HR
								SLIDE: 30' IN 1.83 HRS = 16.3' HR
								NOV: SHUT DOWN
								SWACO OFF LINE @ 9150'.
								HOLE STARTED SEEPING @ 9120' LOST 220 BBLS
	17:30	- 18:00	0.50	DRLPRV	07	Α	Р	PUMPING LCM SWĒEPS RIG SERVICE
		÷ 21:00						
	10.00	21:00	3.00	DRLPRV	02	В	Р	DRILL F/ 8583' TO 9485' , 147' @ 49' HR
								WEIGHT ON BIT 24/26
								REVALUTIONS PER/MINUTE 68
								STROKES PER/MINUTE 120
								GALLONS PER/MINUTE 540
								PUMP PRESSURE ON/OFF2450/2100 TORQUE ON/OFF 17/14
								UP/SLACK OFF/ ROTATE 306/141/190
								MUD WEIGHT 12 , VISCOSITY 45, 20% LCM
								ROTATE: 147' IN 3 HRS = 49' HR
								SLIDE: 0
								NOV: SHUT DOWN
								STARTED DISPLACING MUD @ 9400', LOST
								CIRCULATION @ 9485'
	21:00	- 23:00	2.00	DRLPRV	05	В	Χ	*** LOST CIRC *** LOST 2200 BBLS, BUILD VOLUME
								, CIRCULATE & CONDITION, MIX LCM, 9.6 WT, 40
								VIS, 18% LCM
	23:00	- 0:00	1.00	DRLPRV	02	В	Р	DRILL F/ 9485' TO 9527' , 42' @ 42' HR
								WEIGHT ON BIT 24/26
								REVALUTIONS PER/MINUTE 68
								STROKES PER/MINUTE 100
								GALLONS PER/MINUTE 450
								PUMP PRESSURE ON/OFF2200/1800
								TORQUE ON/OFF 15/14
								UP/SLACK OFF/ ROTATE 308/153/199
								MUD WEIGHT 10 , VISCOSITY 35, LCM 17%
								ROTATE: 42' IN 1 HR =M 42' HR
								SLIDE: 0
								NOV: SHUT DOWN
MARKET STATE OF THE STATE OF TH	ATT - 1 - 1 - 1111 114 - 1111 - 1111	140						LOST APPROX 80 BBLS TO SEEPAGE

Operation Summary Report

Well: MORGAN	STATE 921-36G1C	S YELLOW					Spud Date: 6/1	4/2012
Project: UTAH-U	JINTAH		Site: MOF	RGAN ST	ATE 921-	-36F2 PAI)	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING	3		Start Date	Υ				End Date: 9/13/2012
Active Datum: R Level)	KB @5,018.00usft (above Mean S	ea	UWI: SE	E/ NW /0/9/	/S/21/E/36	6/0/0/26/PM/N/15	530/W/0/1799/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/12/2012	0:00 - 3:30	3.50	DRLPRV	02	В	P		DRILL F/9527' TO 9707' TD @ 03:30 9/12/2012, 180' @ 51.4' HR WEIGHT ON BIT 24/26 REVALUTIONS PER/MINUTE 68 STROKES PER/MINUTE 100 GALLONS PER/MINUTE 450 PUMP PRESSURE ON/OFF2200/1800 TORQUE ON/OFF 15/14 UP/SLACK OFF/ ROTATE 310/155/199 MUD WEIGHT 10.4 , VISCOSITY 33, LCM 15% ROTATE: 180' IN 3.5 HRS = 51.4' HR SLIDE: 0 NOV: SHUT DOWN LOST APPROX 80 BBLS TO SEEPAGE
	3:30 - 8:00 8:00 - 12:00	4.50 4.00	DRLPRV	05	A	Р		CIRCULATE & CONDITION, RAISE WT TO 11.8, VIS 40, LCM 20 %
	12:00 - 13:00	1.00	DRLPRV	06 06	E. E	P X		SHORT TRIP TO SHOE @ 2600 (HAD TIGHT SPOT AT 5,000' WORKED FREE TOH)
	13:00 - 14:00	1.00	DRLPRV	06	E	x		***TIH TO 5190 ' FILLED PIPE BIT PLUGED OFF HAD 2,000 PSI ON PIPE RELEASED PIS
		1.00	DILL IV	33	L	^		***TOH FROM 5190 TO 4902 (TRYED PUMPING AGAIN PRESSURED UP TO 2400 PSI WOKED PIPE UP & DOWN PRESSURE BROKE FREE) WASED 4902 TO 4996
	14:00 - 17:30	3.50	DRLPRV	06	E	Р		TIH WASHED ALL BRIDGES 5,000 TO 5100, 5800 TO 5950 ,6484 TO 6520 , 9530 TO 9707
	17:30 - 20:30	3.00	DRLPRV	05	В	P		CRIC. COND RAISE MUD WT FROM 11.8 TO 12.2
	20:30 - 0:00	3.50	DRLPRV	06	Е	P		TRIP OUT HOLE TO RUN 4.5 CASING
9/13/2012	0:00 - 1:00	1.00	DRLPRV	06	E	Р		TOH TO RUN 4.5 Casing
	1:00 - 2:00	1.00	DRLPRV	06	Α	P		LAY DOWN MWD TOOLS
	2:00 - 3:00	1.00	CSGPRO	12	Α .	P		RIG DOWN SMITH ROTAING HEAD BEARING PACK, INSTALL CASING ADAPTER SPOOL
	3:00 - 4:00	1.00	CSGPRO	12	A	P		RIG UP CASING CREWS ,TOOLS, HELD SAFTY MEETING
	4:00 - 7:30	3.50	CSGPRÖ	12	С	P		RUN 4.5 CASING RUN 218 JTS 4.5 CASING 11.6 L-80 SHOE @ 9685 FC @ 9640 MARKER JT @ 7523
	7:30 - 9:00	1.50	CSGPRO	12	Α	Z		WHEN WE DID DUMP TEST FOR DQX PIPE KIMZEY CASING CRUSHED 1- X.O JOINT & 1 JOINT DQX PIPE LAYED DOWN CRUSHED PIPE & REPLACED WITH NEW PIPE RESET COMPUTER
	9:00 - 12:00	3.00	CSGPRO	12	Α	P		FINSH RUNING 4.5 CASINSLAND CASING
	12:00 - 14:00	2.00	CSGPRO	12	В	Р		CIRC 4.5 CASING GAS OUT RIG UP CMT CREWS HELD S/M
	14:00 - 17:00	3.00	CSGPRO	12	E	Р		CMT 4.5 CASING LEAD 12.5 YIELD 1.98 CMT SX 532 TAIL 14.3 YIELD 1.32 CMT SX 1030 FLOATS HELD DISPLACE W/ 149 BBLS RETRUNED 20 BBLS CMT TO PIT LIFT PSI 2800 BUMPED PSI 3300
	17:00 - 19:00	2.00	CSGPRO	14	Α	Р		BACK FLUSH FLOW LINE SWACO LINES SET PACK OFF L/D LANDING JTS. NIPPLE DOWN BOPS CLEAN PITS .
	19:00 - 19:00	0.00	CSGPRO					RIG RELEASED @ 19:00 9/13/2012

2/13/2013 10:01:37AM

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Weil	MORGAN STATE 921-36G1CS YELLOW	Wellbore No.	ОН						
Well Name	MORGAN STATE 921-36G1CS	Wellbore Name	MORGAN STATE 921-36G1CS						
Report No.	1	Report Date	6/14/2012						
Project	UTAH-UINTAH	Site	MORGAN STATE 921-36F2 PAD						
Rig Name/No.		Event	COMPLETION						
Start Date	1/8/2013	End Date	1/28/2013						
Spud Date	6/14/2012	Active Datum	RKB @5,018.00usft (above Mean Sea Level)						
UWI	SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1530/W/0/1799/0/0	SE/NW/0/9/S/21/E/38/0/0/26/PM/N/1530/W/0/1799/0/0							

1.3 General

Contractor	Job Method	 Supervisor	
Perforated Assembly	Conveyed Method		

Fluid Density
Estimate Res Press

Fluid Head

Press Difference

1.5

Summary

1.4 Initial Conditions

Fluid Type

Surface Press

TVD Fluid Top Hydrostatic Press

Balance Cond

NEUTRAL

Gross Interval	6,231.0 (usft)-9,527.0 (usft	Start Date/Time	1/7/2013	12:00AM	
No. of Intervals	73	End Date/Time	1/7/2013	12:00AM	
Total Shots	249	Net Perforation Interval		81.00	(usft)
Avg Shot Density	3.07 (shot/ft)	Final Surface Pressure			

Final Press Date

2 Intervals

2.1 Perforated Interval

Date Formation/ CCL@ CCL-T Reservoir (usft) S (usft)	MD Top MD Base (usff) (usff)	Shot Density (shot/ft)	Misfires/ Diamete Carr Type /Stage No 'Add, Shot n (in)	Carn Size (in)	Phasing Cha	arge Desc /Charge; Charge; Reason Misrun Manufacturer Weight (gram)
1/7/2013 WASATCH/ 12:00AM	6,231.0 6,232.0	4.00	0.360 EXP/	3.375	90.00	23.00 PRODUCTIO N

Date	Formation/. Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ D Add, Shot	Diamete r (in)	Carr Type /Stage No	Carri Size (in)	Phasing (°)	Charge Desc/Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/7/2013 12:00AM	WASATCH/			6,242.0	6,244.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,425.0	6,428.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,522.0	6,523.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/		1	6,543.0	6,544.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,625.0	6,626.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,650.0	6,651.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,704.0	6,705.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,723.0	6,725.0	3.00	70.	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,846.0	6,847.0	3.00		0.360	EXP/	3.375	120.00	7	23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,859.0	6,860.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,900.0	6,901.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			6,960.0	6,961.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,091.0	7,092.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,103.0	7,105.0	3.00	MA C 2000 S. J. J. J. M. M. W.	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,200.0	7,201.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/	-		7,220.0	7,221.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,255.0	7,256.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,300.0	7,301.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/			7,504.0	7,505.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	WASATCH/		a control of the cont	7,515.0	7,517.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	The state of the s
1/7/2013 12:00AM	MESAVERDE/	1	real control of the c	7,683.0	7,684.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	T man a man of the control of the co

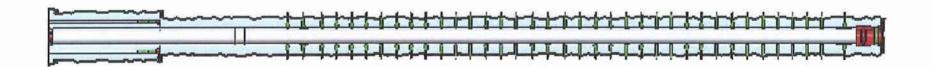
Date	Formation/; Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/i Add. Shot	Diamete' (in)	Carr Type /Stage No	Carr Size (in)	Phasing (*)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason #	Misrun
1/7/2013 12:00AM	MESAVERDE/	\$-,000 000 n Sec.		7,698.0	7,699.0	3.00	- 1, i. #i	0.360	EXP/	3.375	120.00	uutava teetata valkii kalkuuri kaga valta asta sa teesa tii ta ta ta ta ta		PRODUCTIO N	11
	MESAVERDE/		The second secon	7,725.0	7,726.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,761.0	7,762.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,793.0	7,794.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,842.0	7,843.0	3.00		0.360	EXP/	3.375	120.00	3	23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,861.0	7,862.0	3.00	and the same of th	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
	MESAVERDE/	Order of the Control		7,872.0	7,873.0	3,00	100000000000000000000000000000000000000	0.360	EXP/	3.375	120.00	The state of the s	23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,902.0	7,903.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			7,950.0	7,951.0	3.00		0.360	EXP/	3.375	120.00	Annual Control of the	23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/	The state of the s		8,015.0	8,016.0	3.00	The state of the s	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/	The state of the s		8,077.0	8,078.0	3.00	and a contraction of the contrac	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,086.0	8,087.0	3.00	000000000000000000000000000000000000000	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,172.0	8,174.0	3.00	Amount moneyers	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,413.0	8,414.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,438.0	8,439.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,492.0	8,493.0	3.00	THE ALL OLD ASSESSED.	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,525.0	8,526.0	3.00		0.360	EXP/	3.375	120.00	4 TO P A LOUIS COMMITTEE OF THE STATE OF THE		PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,551.0	8,552.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,607.0	8,608.0	3.00		0.360	EXP/	3.375	120.00	MA.		PRODUCTIO N	
	MESAVERDE/			8,641.0	8,642.0	3.00		0.360	EXP/	3.375	120.00	000 000 000 000 000 000 000 000 000 00		PRODUCTIO N	
	MESAVERDE/			8,661.0	8,662.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	A Control of the Cont

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/7/2013 12:00AM	MESAVERDE/			8,697.0	8,698.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,759.0	8,760.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/	1,000		8,773.0	8,774.0	3.00	1	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,795.0	8,796.0	3.00	The state of the s	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,829.0	8,830.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,862.0	8,863.0	3.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,877.0	8,878.0	3.00	A	0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,909.0	8,910.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			8,936.0	8,937.0	3.00	· - vvananoo	0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/		***************************************	8,951.0	8,952.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/		:	8,965.0	8,966.0	3.00	1	0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,005.0	9,006.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,027.0	9,028.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
	MESAVERDE/			9,065.0	9,066.0	3.00		0.360	EXP/	3.375	120.00	"		PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,091.0	9,092.0	3.00	:	0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,118.0	9,119.0	3.00	:	0.360	EXP/	3.375	120.00			PRODUCTIO N	To the deliberation of the second seco
1/7/2013 12:00AM	MESAVERDE/			9,134.0	9,135.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,185.0	9,186.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	:
1/7/2013 12:00AM	MESAVERDE/			9,230.0	9,231.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	-
1/7/2013 12:00AM	MESAVERDE/			9,261.0	9,262.0	3.00		0.360	EXP/	3.375	120.00			PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,277.0	9,278.0	3.00		0.360	EXP/	3.375	120.00	100 100 100 100 100 100 100 100 100 100		PRODUCTIO N	

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc / Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/7/2013 12:00AM	MESAVERDE/			9,298.0	9,300.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,331.0	9,332.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,350.0	9,351.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,380.0	9,381.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,391.0	9,392.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,402.0	9,403.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,464.0	9,465.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,514.0	9,515.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/7/2013 12:00AM	MESAVERDE/			9,526.0	9,527.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



Well: MORGAN		921-36G1CS `	YELLOW				Spud [Date: 6/14/2012
Project: UTAH-U	JINTAH			Site: MOF	RGAN ST	ATE 921	-36F2 PAD	Rig Name No: MILES 2/2
Event: COMPLE	TION			Start Date	e: 1/8/201	3		End Date: 1/28/2013
Active Datum: R Level)	KB @5,0	018.00usft (ab	ove Mean Se	a	UWI: SE	E/NW/0/9	/S/21/E/36/0/0/26/I	PM/N/1530/W/0/1799/0/0
Date		Time tart-End	Duration (hr)	Phase	Code	Sub Code	TO THE POST AND THE REPORT OF SELECTION OF S	From Operation (SET)
6/14/2012		-				-	2	
6/15/2012		•						
1/8/2013	9:00	- 10:00	1.00	FRAC	33	С	Р	FILL SURFACE CSG. MIRU CAMERON QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 28 PSI.
								NO COMMUNICATION OR MIGRATION WITH SURFACE CSG
1/14/2013	7:00	- 13:00	6.00	FRAC	37	В	Р	BLEED OFF PSI. MOVE T/ NEXT WELL.SWIFN
					٠.	-	·	HSM, RIGGING UP, MIRU CASED HOLE SOLUTIONS, PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
1/15/2013	6:30	- 6:45	0.25	FRAC	48		Р	HSM, REVIEW FRAC DESIGN, AND COLD WEATHER [-21 DEEGREE]
	6:45	- 18:30	11.75	FRAC	36	B	Р	PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR.
								ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PUR FOR FLUID, SAND AND
								CHEMICL VOLUME PUM'D
								FRAC STG #1] WHP=#, BRK DN PERFS=#, @= BPM,
								INJ RT=, INJ PSI=#, INITIAL ISIP=#, INITIAL FG=., FINAL ISIP=#, FINAL FG=., AVERAGE RATE=,
								AVERAGE PRESSURE=#, MAX RATE=, MAX
								PRESSURE=#, NET PRESSURE INCREASE=#, CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9321', PERF MESAVERDE
								USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS
								PERSAY IN PROCEDURE, X OVER TO FRAC CREW
								FRAC STG #2] WHP=2,620#, BRK DN
								PERFS=2,922#, @=4.3 BPM, INJ RT=49.7, INJ PSI=4,797#, INITIAL ISIP=2,608#, INITIAL FG=.72,
								FINAL ISIP=2,977#, FINAL FG=.76, AVERAGE
								RATE=49.2, AVERAGE PRESSURE=4,679#, MAX
								RATE=51.1, MAX PRESSURE=5,433#, NET
								PRESSURE INCREASE=369#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP &
								PERF GUN, SET CBP @=9,108', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.
								SWFN
1/16/2013	7:00	- 7:15	0.25	FRAC	48	В	Р	HSM, REVIEW OPENING & CLOSING VALVES

Well: MORGAN	STATE 921-36G1CS	YELLOW					Spud Date: 6/14/2012
Project: UTAH-	UINTAH		Site: MO	RGAN ST	ATE 921	I-36F2 PAD	Rig Name No: MILES 2/2
vent: COMPLI	ETION		Start Dat	e: 1/8/201	13		End Date: 1/28/2013
ctive Datum: F	RKB @5,018.00usft (al	bove Mean S	ea	UWI: SI	E/NW/0/9	9/S/21/E/36/	/0/26/PM/N/1530/W/0/1799/0/0
evel)		W 3 2					
Date	. Time [™]	Duration	Phase	Code	Sub	P/U	MD From Operation
	7:15 - 17:30	(hr) 10,25	FRAC	36	Code B	P	(usft)
	17.00	10,20	11010	30	D	-	FRAC STG #3] WHP= 2065#, BRK DN PERFS=
							3646#, @= 4.4 BPM,
							INJ RT= 50 BPM, INJ PSI= 5109#, INITIAL ISIP= 2397#
							INITIAL FG= 0.79, FINAL ISIP= 2765#, FINAL FG=
							0.75, AVERAGE RATE= 51.1 BPM,
							AVERAGE PRESSURE= 4862#, MAX RATE= 52 BPM,
							MAX PRESSURE= 5560#, NET PRESSURE
							INCREASE= 368#,
							CALC 96% PERFS OPEN.(23/24), X OVER TO WIRE LINE
							PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP &
							PERF GUN, SET
							CBP @= 8899', PERF MESAVERDE USING 3-1/8
							EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
							FRAC STG #4] WHP= 2305#, BRK DN PERFS=
							3077#, @= 6.2 BPM,
							INJ RT= 51.9 BPM, INJ PSI= 5218#, INITIAL ISIP=
							2378#, INITIAL FG= 0.71, FINAL ISIP= 2977#, FINAL FG= 0.78, AVERAGE
							RATE= 51.2.
							AVERAGE PRESSURE= 5106#, MAX RATE= 53.7
							BPM,
							MAX PRESSURE= 6118#, NET PRESSURE
							INCREASE= 599#,
							CALC 100% PERFS OPEN. (21/21 HOLES), X
							OVER TO WIRE LINE
							PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP &
							PERF GUN, SET CBP @= 8687', PERF MESAVERDE USING 3-1/8
							EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN
							PROCEDURE, X OVER TO FRAC CREW
1/17/2013	6:30 - 7:00	0.50	FRAC	48		Р	JSA-SAFETY MEETING

Operation Summary Report

Well: MORGAN STATE 921-36G1CS YELLOW				;	Spud Date: 6/14/	2012
Project: UTAH-UINTAH	Site: MOR	GAN ST	ATE 921	-36F2 PAD		Rig Name No: MILES 2/2
Event: COMPLETION	Start Date:	1/8/201	3			End Date: 1/28/2013
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE	/ NW /0/9	/S/21/E/36/0	/0/26/PM/N/1530	/W/0/1799/0/0
Date Time Duration Start-End (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7:00 - 17:30 10.50	FRAC	36	E	P		

FRAC STG #5] WHP= 1850#, BRK DN PERFS= 3403#, @= 4.6 BPM,

INJ RT= 51.3 BPM, INJ PSI= 4701#, INITIAL ISIP= 2030#, INITIAL FG= 0.68, FINAL ISIP= 2770#, FINAL FG= 0.76, AVERAGE RATE= 50.6 BPM, AVERAGE PRESSURE= 4595#, MAX RATE= 51.6 BPM, MAX PRESSURE= 5743#, NET PRESSURE INCREASE= 740#, CALC 100% PERFS OPEN. (24/24 HOLES), X OVER TO WIRE LINE

PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8204', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW

FRAC STG #6] WHP= 735#, BRK DN PERFS= 4055#, @= 4.1 BPM,

INJ RT= 50.2, INJ PSI= 5370#, INITIAL ISIP= 2340#, INITIAL FG= 0.73, FINAL ISIP= 2334#, FINAL FG= 0.73, AVERAGE RATE= 48.7 BPM, AVERAGE PRESSURE= 4697#, MAX RATE= 50.3 BPM, MAX PRESSURE= 5757#, NET PRESSURE INCREASE= - 6#, CALC 95% PERFS OPEN. (20/21 HOLES), X OVER TO WIRE LINE

PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7892', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW

FRAC STG #7] WHP= 1335#, BRK DN PERFS= 2437#, @= 4 BPM,

INJ RT= 50.5, INJ PSI= 3781#, INITIAL ISIP= 1632#, INITIAL FG= 0.65, FINAL ISIP= 2115#, FINAL FG= 0.71, AVERAGE RATE= 48.8 bpm, AVERAGE PRESSURE= 3803#, MAX RATE= 50.8 BPM, MAX PRESSURE= 4709#, NET PRESSURE INCREASE= 483#,

CALC 100% PERFS OPEN. (24/24 holes) X OVER TO WIRE LINE

PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7547', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN

FRAC STG #8] WHP= 315#, BRK DN PERFS= 2550#, @= 3.5 BPM,

INJ RT= 50.4 BPM, INJ PSI= 3908#, INITIAL ISIP= 855#, INITIAL FG= 0.55, FINAL ISIP= 2207#, FINAL FG= 0.74, AVERAGE RATE= 50 BPM, AVERAGE PRESSURE= 3889#, MAX RATE= 50.9, MAX PRESSURE= 5075#, NET PRESSURE

US ROCKIES REGION Operation Summary Report Well: MORGAN STATE 921-36G1CS YELLOW Spud Date: 6/14/2012 Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2 Event: COMPLETION Start Date: 1/8/2013 End Date: 1/28/2013 UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1530/W/0/1799/0/0 Active Datum: RKB @5,018.00usft (above Mean Sea Level) Date Time Duration Phase Code P/U Sub MD From Operation Start-End Code (hr) (usft) INCREASE= 1352#, CALC 91% PERFS OPEN. (19/21 HOLES) X OVER TO WIRE LINE PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7135', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS

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PERSAY IN PROCEDURE, X OVER TO FRAC CREW

JSA-SAFETY MEETING

1/18/2013

6:30

- 7:00

0.50

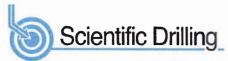
FRAC

48

ect: UTAH-U	NTAH						Spud Date: 6/	
nt: COMPLE	17.117		Site: MOI	RGAN ST	ATE 921	-36F2 PAE)	Rig Name No: MILES 2/2
	ΓΙΟΝ		Start Dat	e: 1/8/201	3			End Date: 1/28/2013
ve Datum: Rh el)	(B @5,018.00usft (a	bove Mean S	ea	UWI: SE	E/NW/0/9	/S/21/E/36	/0/0/26/PM/N/1	530/W/0/1799/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		FRAC STG #9] WHP= 1413#, BRK DN PERFS= 2502#, @= 3.5 BPM, INJ RT= 49.8 BPM, INJ PSI= 3613#, INITIAL ISIP= 1678#, INITIAL FG= 0.68, FINAL ISIP= 1991#, FINAL FG= 0.72, AVERAGE RATE= 49.4 BPM, AVERAGE PRESSURE= 3769#, MAX RATE= 50.1 BPM, MAX PRESSURE= 5043#, NET PRESSURE INCREASE= 313#, CALC 100% PERFS OPEN. (21/21 HOLES), X OVER TO WRE LINE PERF STG #10] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6755', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #10] WHP= 230#, BRK DN PERFS= 3087#, @= 4.4 BPM, INJ RT= 49.8, INJ PSI= 3340#, INITIAL ISIP= 757#, INITIAL FG= 0.55, FINAL FG= 0.67, AVERAGE RATE= 49.6 BPM, AVERAGE PRESSURE= 3134#, MAX RATE= 50.4 BPM, MAX PRESSURE= 3946#, NET PRESSURE INCREASE= 795#, CALC 100% PERFS OPEN. (21/21 HOLES), X OVER TO WIRE LINE PERF STG #11] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6458', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN FRAC STG #11) WHP = 230#, BRK DN PERFS = 2384#, @ 3.9 BPM, INT PSI = 2816#, INITIAL ISIP = 1202#, INITIAL FG = 0.63, FINAL ISIP = 1300#, FINIAL FG = 0.64, AVERAGE RATE = 47.8 BPM, AVERAGE PSI = 2501#, MAX RATE = 47.8 BPM, MAX PSI = 3266 #, NET PRESSURE INCREACE = 98 #, CALC PERF OPEN, (24/24HOLES) X OVER TO WIRELINE KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SETCBP @ 6181', POOH SWI, R/D WIRELINE AND FRAC CREW, TOTAL WATER = 13529 BBLS TOTAL CAND = 0007504 #
1/25/2013	7:00 - 7:30 7:30 - 16:30	0.50 9.00	DRLOUT DRLOUT	48 31	ı	P P		TOTAL SAND = 327584 # RDMO MIRU, NDWH, NU BOP'S, PU POBS, BIT, SN,TIH TBG

Nell: MORGAN	STATE 921-36G1CS	YELLOW					Spud Date: 6/1	4/2012
Project: UTAH-U	JINTAH		Site: MOI	RGAN ST	ATE 921	I-36F2 PAI	D	Rig Name No: MILES 2/2
vent: COMPLE	TION	-	Start Date	e: 1/8/201	3			End Date: 1/28/2013
Active Datum: R _evel)	KKB @5,018.00usft (ab	ove Mean Se	ea	UWI: SE	E/ NW /0/9	0/S/21/E/36	8/0/0/26/PM/N/15	30/W/0/1799/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/28/2013	7:00 - 7:30	0.50	DRLOUT	48		P		MILLING PLUGS
	7:30 - 18:30	11.00	DRLOUT	44	С	Р		MILL 11 CBP'S, 293 JTS, 9274',C/O 105' SAND,TO PBTD, 304 JTS, 9639', POOH TO 9081.64', 286 JTS, LAND TBG, ND BOP'S, NUWH, POBS, 1200#, PRESSURE TEST FLOW LINE 3000#, RDMO TO MS 921-36F1CS
								PLUG# 1 6181' 10' SAND 5 MIN 200# KICK PLUG# 2 6458' 30' SAND 5 MIN 200# KICK PLUG# 3 6755' 30' SAND 5 MIN 300# KICK PLUG# 4 7135' 50' SAND 5 MIN 300# KICK PLUG# 5 7547' 40' SAND 5 MIN 700# KICK PLUG# 6 7892' 20' SAND 5 MIN 500# KICK PLUG# 7 8204' 30' SAND 5 MIN 800# KICK PLUG# 8 8687' 30' SAND 5 MIN 900# KICK PLUG# 9 8899' 30' SAND 5 MIN 900# KICK PLUG# 10 9108' 20' SAND 5 MIN 1000# KICK PLUG# 11 9321' 20 SAND 5 MIN 600# KICK PLUG# 11 9321' 20 SAND 5 MIN 600# KICK PLUG# 11 9321' 20 SAND 5 MIN 600# KICK PBTD 9,639' BTM PERF 9,527' TBG 286 JTS 9054.61' KB 24.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 9081,64'
	18:30 - 18:30	0.00	DRLOUT	50				FRAC WTR 13,529 BBLS RCVD 2,900 BBLS LTR 10,629 BBLS WELL TURNED TO SALES @ 1540 HR ON 1/28/2013. 3500 MCFD, 1560 BWPD, FCP 2400#, FTP
2/1/2013	7:00 -			50				2370#, 20/64" CK. WELL IP'D ON 2/1/13 - 2670 MCFD, 0 BWPD, 0 BOPD, CP 2500#, FTP 1200#, LP 110#, 24 HRS, CK 20/64

2/15/2013



+E/-W 0.00 Project: UTAH - UTM (feet), NAD27, Zone 12N Site: MORGAN STATE 921-36F2 PAD Well: MORGAN STATE 921-36G1CS

Wellbore: OH Design: OH



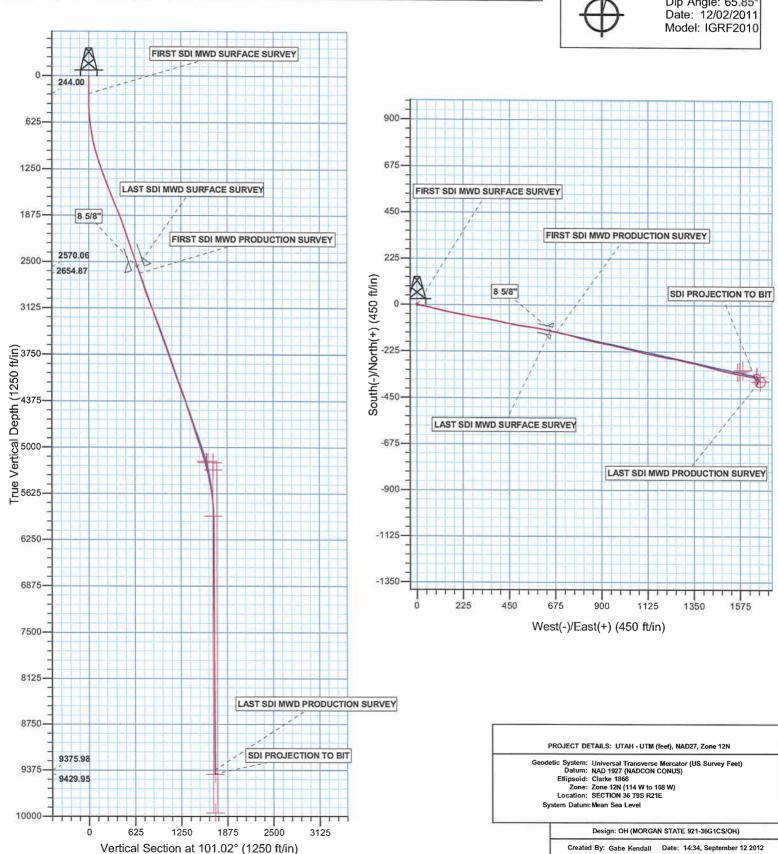
WELL DETAILS: MORGAN STATE 921-36G1CS

GL 4994 & KB 24 @ 5018.00ft (HP 318)

Northing Easting Latittude Longitude 14527957.68 2059874.74 39.995577 -109.502374

Azimuths to True North
Magnetic North: 11.02°

Magnetic Field
Strength: 52279.7snT
Dip Angle: 65.85°





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

ОН

Design: OH

Standard Survey Report

12 September, 2012







Company: Project:

Site:

Well:

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD

MORGAN STATE 921-36G1CS

Wellbore: Design:

OH ОН Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well MORGAN STATE 921-36G1CS

GL 4994 & KB 24 @ 5018,00ft (HP 318) GL 4994 & KB 24 @ 5018.00ft (HP 318)

Minimum Curvature

EDM 5000.1 Single User Db

Project

UTAH - UTM (feet), NAD27, Zone 12N

Map System:

Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

Zone 12N (114 W to 108 W)

System Datum:

Mean Sea Level

Site

From:

MORGAN STATE 921-36F2 PAD, SECTION 36 T9S R21E

Site Position:

Lat/Long

Northing: Easting:

14,527,976.05 usft 2,059,883.10 usft

Latitude:

Longitude:

39.995627

Position Uncertainty:

0.00 ft

Slot Radius:

13.200 in

Grid Convergence:

-109.502343

0.96 °

Well MORGAN STATE 921-36G1CS, 1530 FNL 1799 FWL

Well Position

+N/-S +E/-W 0.00 ft 0.00 ft Northing:

Easting:

14,527,957.68 usft 2,059,874.74 usft Latitude: Longitude:

39.995577 -109.502374

Position Uncertainty

0.00 ft

Wellhead Elevation:

Ground Level:

4.994.00 ft

Wellbore OH Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength **(°) (°**) (nT) IGRF2010 12/02/11 11.02 65.85 52,280

Design	ОН		enderstein von der verschieden der der der verschieden der verschieden der verschieden der verschieden der ver Beitre Einstein von der verschieden der verschieden der verschieden der verschieden der verschieden der versch	one carrene virginia especia proporare de la carrena de la carrena de la carrena de la carrena especiale. Mante	
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section	n:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W D (ft)	irection (°)
		0.1	0.00	0.00	101.02

2,769.00	9,707.00 Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
15.00	2,679.00 Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
	Date 09/12/12 To (ft) Survey (Wellbore)	Tool Name	Description	

7				devolution of the		TYACHERUS.	1.72000050000000		
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
244.00	0.44	112.20	244.00	-0.33	0.81	0.86	0.19	0.19	0.00
FIRST SDI N	IWD SURFACE S	SURVEY	Maker and Ar-				Parket Service		
334.00	0.79	116.68	333.99	-0.74	1.69	1.80	0.39	0.39	4.98
429.00	2.02	105.96	428.96	-1.50	3.88	4.10	1.32	1.29	-11.28
524.00	4.13	104.12	523.82	-2.79	8.81	9.18	2.22	2.22	-1.94
619.00	6.33	96.65	618.42	-4.23	17.33	17.82	2.42	2.32	-7.86
715.00	8,62	99,99	713.60	-6.09	29.68	30.29	2.43	2.39	3.48
809.00	10.90	102.89	806.23	-9.30	45.28	46.22	2.48	2.43	3.09



Database:



Company: Project: Site: Well: US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

Wellbore: OH Design: OH Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well MORGAN STATE 921-36G1CS GL 4994 & KB 24 @ 5018.00ft (HP 318) GL 4994 & KB 24 @ 5018.00ft (HP 318) True

Minimum Curvature EDM 5000.1 Single User Db

			restriction	remail a subtreal				100000	
Measured Donth	taria w	1 100 100 100	Vertical	1,000,000	200	Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
903.00	13.10	104.64	898.17	-13.97	64.25	65.74	2 27	2.24	1.96
000.00	10.10	104.04	030.17	-10.87	04.23	05.74	2.37	2.34	1.86
996.00	15,21	103.59	988.34	-19.50	86.31	88.45	2.29	2.27	-1.13
1,091.00	17.06	101.92	1,079.60	-25.31	112.06	114.83	2.01	1.95	-1.76
1,186.00	18.99	102.27	1,169.93	-31.48	140.80	144.22	2.03	2.03	0.37
1,279.00	19.41	102.32	1,257.76	- 37.99	170.68	174.80	0.45	0.45	0.05
1,373.00	20.05	102.53	1,346.24	-44. 82	201.67	206.52	0.69	0.68	0.22
1,470.00	20.49	100.78	1,437.23	-51.60	234.58	240.12	0.77	0.45	-1.80
1,563.00	21.63	99.99	1,524.02	-57.62	267.45	273.54	1.26	1.23	-0.85
1,659.00	22,86	98.23	1,612.87	-63.36	303.34	309.85	1.46	1.28	-1.83
1,752.00	22,95	99,55	1,698.54	-68.95	339.09	346.02	0.56	0.10	1.42
1,846.00	22.07	100.86	1,785.38	-75.32	374.51	382.00	1.08	-0.94	1.39
4 6 4 6 5 -	٠. نـــ	,							
1,940.00	21.10	103.33	1,872.79	-82.55	408,32	416.57	1.41	-1.03	2.63
2,032.00	19.43	102,27	1,959.09	-89.62	439.39	448.42	1.86	-1.82	-1.15
2,124.00	18.38	99.81	2,046.13	-95.34	468.64	478,22	1.43	-1.14	-2.67
2,215.00	18.99	98.58	2,132.33	-100.00	497.41	507.36	0.80	0.67	-1.35
2,310.00	18.91	98.49	2,222.18	-104.57	527.92	538.18	0.09	-0.08	-0.09
2,401.00	19.70	99.46	2,308.07	-109.27	557.64	568.24	0.94	0.87	1,07
2,495.00	19.35	99.99	2,396.66	-114.58	588.60	599.65	0.42	-0.37	0.56
2,589.00	19.52	100.69	2,485.31	-120,19	619.37	630,92	0.31	0.18	0.74
2,679.00	19.79	102.89	2,570.06	-126.38	649.00	661.19	0.88	0.30	2.44
LAST SDI M	WD SURFACE S	URVEY							
2,769.00	19.35	99.60	2,654.87	-132.27	678.55	691.32	1.32	-0.49	-3,66
FIRST SDI N	IWD PRODUCTION	ON SURVEY							
2,864.00	18.47	103.12	2,744.74	-138.31	708.73	722.10	1.52	-0.93	3.71
2,958.00	17.64	106.45	2,834.11	-145.72	736,89	751.16	1.41	-0.88	3.54
3,053.00	18.47	104.52	2,924.44	-153.57	765.26	780.51	1.08	0.87	-2.03
3,147.00	21.28	105.66	3,012.83	-161.91	796.11	812.38	3.02	2.99	1.21
3,241.00	22.07	103.12	3,100.18	-170.52	829,73	847.03	1.30	0.84	-2.70
0.000.00	00.00	400.04	0.400.00	470.00					
3,336.00	22.60	103.91	3,188.06	-178.96	864.83	883.09	0.64	0.56	0.83
3,430.00	22.34	100.13	3,274.92	-186.45	899.95	919.00	1.56	-0.28	-4.02
3,525.00	19.89	99.30	3,363.54	-192.23	933.68	953.21	2.60	-2.58	-0.87
3,619.00 3,713.00	19.96	103.20	3,451.92	-198.48	965.08	985.23	1.42	0.07	4.15
3,713.00	20.66	103,12	3,540.07	-205,91	996.85	1,017.83	0.75	0.74	-0.09
3,808.00	20.05	104.35	3,629.14	-213.75	1,028.95	1,050.84	0.78	-0.64	1.29
3,903.00	18.99	101.80	3,718.68	-220.95	1,059.86	1,082.55	1.43	-1.12	-2.68
3,997.00	18.99	102.59	3,807.56	-227.41	1,089.76	1,113.13	0.27	0.00	0.84
4,092.00	18.91	105.04	3,897.42	-234.77	1,119.71	1,143.94	0.84	-0.08	2.58
4,186.00	18.64	102.32	3,986.42	-241.93	1,149.10	1,174.15	0.97	-0.29	-2.89
4,281.00	19.35	99.78	4,076.24	-247.84	1,179.44	1,205.07	1.15	0.75	-2.67
4,375.00	20.93	99.34	4,164.49	-247.64 -253,21	1,179.44	1,205.07	1.15	1.68	-2.67 - 0.47
4,470.00	19.26	97.84	4,253.71	-258.11	1,243.62	1,270.03	1.84	-1.76	-0.47 -1.58
4,564.00	19.70	105.14	4,342.34	-264.36	1,274.28	1,301.31	2.63	0.47	-1.36 7.77
4,659.00	18.55	101.97	4,432.10	-271.68	1,304.52	1,332.40	1.63	-1.21	-3.34





Company: Project: US ROCKIES REGION PLANNING

Site: Well: UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD MORGAN STATE 921-36G1CS

Wellbore: Design:

OH

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well MORGAN STATE 921-36G1CS

GL 4994 & KB 24 @ 5018.00ft (HP 318) GL 4994 & KB 24 @ 5018.00ft (HP 318)

True

Minimum Curvature

EDM 5000.1 Single User Db

Measured			Vertical			Vertical	Dad-	D;	
Depth	Inclination	Azimuth	Verucai Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	Azinium (°)	(ft)	(ft)	761-VV (ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
4,753.00	17.76	102.24	4,521.42	-277.82	1,333.16	1,361.68	0.85	-0.84	0.29
4,848.00	17.41	102.76	4,611.98	-284.03	1,361.18	1,390.37	0.40	-0.84 -0.37	
4,942.00	17.59	105.50	4,701.63						0.55
5,037.00	18.40	104.01		-290.93	1,388.58	1,418.59	0.90	0.19	2.91
			4,791.98	-298.40	1,416.96	1,447.87	0.98	0.85	-1.57
5,131.00	19.01	105.20	4,881.02	-306.00	1,446.13	1,477.96	0.77	0.65	1.27
5,225.00	18.38	103.82	4,970.06	-313.55	1,475.30	1,508.03	0.82	-0.67	-1.47
5,320.00	16.71	101.62	5,060.64	-319.88	1,503.22	1,536.65	1.89	-1.76	-2.32
5,414.00	16.44	101.45	5,150.73	-325.25	1,529.49	1,563.46	0.29	-0.29	-0.18
5,508.00	15.56	103.91	5,241.09	-330.92	1,554.77	1,589.35	1.18	-0.94	2.62
5,603.00	13.63	101.53	5,333.02	-336.22	1,578.11	1,613.28	2.13	-2.03	-2.51
5,697.00	11.78	97.23	5,424.72	-339.64	1,598.48	1,633.93	2.21	-1.97	-4.57
5,792.00	9.76	98.37	5,518.04	-342.03	1,616.07	1,651.65	2.14	-2.13	1.20
5,886.00	8.87	100.58	5,610.80	-344.52	1,631.08	1,666.85	1.02	-0.95	2.35
5,981.00	6.42	107.42	5,704.95	-347.46	1,643.34	1,679.46	2.75	-2.58	7.20
6,075.00	4.48	117.62	5,798.52	-350.74	1,651.61	1,688.20	2.30	-2.06	10.85
6,170.00	2.73	128.52	5,893.33	-353.86	1,656,67	1,693.76	1.97	-1.84	11.47
6,264.00	0.79	114.19	5,987.28	-355.52	1,659.01		2.10		
6,359.00	1.14	123.33	6,082.27	-356.31	1,660.40	1,696.38		-2.06	-15.24
6,453,00	0.35	147,32			•	1,697.89	0.40	0.37	9.62
6,547.00	0.53		6,176.26	-357.07	1,661.34	1,698.96	0.89	-0.84	25.52
0,547.00	0.55	154.36	6,270.26	-357.70	1,661.68	1,699.41	0.20	0.19	7.49
6,642.00	0.62	343,11	6,365.25	-357.61	1,661.72	1,699.44	1.21	0.09	-180.26
6,736.00	0.35	340.51	6,459.25	-356.85	1,661.48	1,699.05	0.29	-0.29	-2.77
6,831.00	0.09	281.36	6,554.25	-356.56	1,661.31	1,698.83	0.33	-0.27	-62.26
6,925.00	0.26	153.39	6,648.25	-356.74	1,661.33	1,698.89	0.34	0.18	-136.14
7,019.00	0.35	171.23	6,742.25	-357.21	1,661.47	1,699.11	0.14	0.10	18.98
7,114.00	0.44	163,76	6,837.25	-357.85	1,661.62	1,699.38	0.11	0.09	-7.86
7,208.00	0.62	165.61	6,931.24	-358.69	1,661.84	1,699.76	0.19	0.19	1.97
7,302.00	1.14	174.48	7,025.23	-360.11	1,662.06	1,700.25	0.57	0.55	9.44
7,397.00	0.35	171.05	7,120.22	-361.34	1,662.20	1,700.62	0.83	-0.83	-3.61
7,491.00	0.62	356.86	7,214.22	-361.11	1,662.21	1,700.59	1.03	0.29	-185.31
7,585.00	0.26	17.60	7,308.22	-360.40	1,662.25	1,700.49	0.41	-0.38	22.06
7,679.00	0.05	95.16	7,402.22	-360.20	1,662.35	1,700.49	0.41	-0.22	82.51
7,774.00	0.26	158.84	7,497.22	-360.20	1,662.47	1,700.33	0.27	0.22	67.03
7.000.00				-360.82		1,700.71			
7,868.00 7,963.00	0.53 0.44	119.90 215.88	7,591.22 7,686.21	-361.34	1,662.93 1,663.09	1,701.24	0.39 0.76	0.29 -0.09	-41,43 101,03
		,-				·			
8,057.00	0.53	174.39	7,780.21	-362.06	1,662.93	1,701.47	0.38	0.10	-44.14
8,151.00	0.09	151.81	7,874.21	-362.56	1,663.00	1,701.64	0.48	-0.47	-24.02
8,246.00	1.41	37.72	7,969.20	-361.70	1,663.75	1,702.21	1.53	1.39	-120,09
8,340.00	0.88	56.36	8,063.18	-360.39	1,665.06	1,703.25	0.68	-0.56	19.83
8,435.00	0.18	53.98	8,158.18	-359.89	1,665.79	1,703.87	0.74	-0.74	-2.51
8,529.00	0.18	186.00	8,252.18	-359.95	1,665.89	1,703.98	0.35	0.00	140.45
8,623.00	0.38	280.60	8,346.17	-360.04	1,665.57	1,703.68	0.46	0.21	100.64
8,718.00	0.35	141.00	8,441.17	-360.21	1,665.44	1,703.59	0.72	-0.03	-146.95
8,812.00	0.70	242.25	8,535.17	-360.70	1,665.12	1,703.36	0.90	0.37	107.71





Company: Project: Site:

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N MORGAN STATE 921-36F2 PAD

MORGAN STATE 921-36G1CS

Wellbore: Design:

Well:

ОН ОН

Local Co-ordinate Reference: TVD Reference:

MD Reference: **North Reference:**

Survey Calculation Method:

Database:

Well MORGAN STATE 921-36G1CS GL 4994 & KB 24 @ 5018.00ft (HP 318)

GL 4994 & KB 24 @ 5018.00ft (HP 318)

Minimum Curvature EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,906.00	0.88	210.61	8,629.16	-361.59	1,664.24	1,702.67	0.49	0.19	-33.66
9,001.00	1.23	192.24	8,724.15	-363,22	1,663.65	1,702.41	0.51	0.37	-19.34
9,095.00	0.97	207.62	8,818.13	-364.91	1,663.07	1,702.16	0.42	-0.28	16.36
9,190.00	0.70	205.60	8,913.12	-366.14	1,662.45	1,701.78	0.29	-0.28	-2.13
9,284.00	1.23	208.06	9,007.11	-367.55	1,661.73	1,701.34	0.57	0.56	2.62
9,378.00	1.14	198.92	9,101.09	-369.32	1,660.95	1,700.92	0.22	-0.10	-9.72
9,473.00	1.58	197.69	9,196.06	-371.47	1,660.24	1,700.63	0.46	0.46	-1.29
9,567.00	1.49	196.63	9,290.02	-373.87	1,659.50	1,700.36	0.10	-0.10	-1.13
9,653.00	2.11	185.82	9,375.98	-376.52	1,659.02	1,700.40	0.82	0.72	-12.57
LAST SDI M	WD PRODUCTIO	ON SURVEY							
9,707.00	2.11	185.82	9,429.95	-378.50	1,658.82	1,700.58	0.00	0.00	0.00

Casing Points Measure Depth (ft)	Depth (ft)		Casing Hole Diameter Diameter Name (in) (in)
2,70	0.00 2,589.83	8 5/8"	8.625 11.000

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coo +N/-S (ft)	rdinates +E/-W (ft)	Comment
244.00	244.00	-0.33	0.81	FIRST SDI MWD SURFACE SURVEY
2,679.00	2,570.06	-126.38	649.00	LAST SDI MWD SURFACE SURVEY
2,769.00	2,654.87	-132.27	678.55	FIRST SDI MWD PRODUCTION SURVEY
9,653.00	9,375.98	-376.52	1,659.02	LAST SDI MWD PRODUCTION SURVEY
9,707.00	9,429.95	-378.50	1,658.82	SDI PROJECTION TO BIT

Checked By:	Approved By:	Date:	